

Republic of the Philippines
Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

Date : _____

NAME OF PROJECT : Road Widening Primary Roads Pagadian City-Zamboanga City Road Zamboanga City, 1st LD LOCATION: Zamboanga City 1st LD PROJECT CATEGORY : NATIONAL ROAD	Appropriation : P 200,000,000.00 Source of Funds : CY-2018 GAA Issued Obligated Authority : Released : Cal. Days to Complete : 170 Calendar Days Desirable Starting Date : upon approval Mode of Implementation : by contract																																								
PROJECT DESCRIPTION : Scope of Work : Road Widening Road Width : variable (3.83m and 5.35m) Roadbed Width : 12.00 m. Subbase Course : 0.30 m. thk.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Station Limits:</th> <th>Length</th> </tr> </thead> <tbody> <tr> <td>1936+374.00</td> <td>-</td> <td>1936+765.00</td> <td>RS 391.00</td> </tr> <tr> <td>1936+765.00</td> <td>-</td> <td>1936+980.00</td> <td>BS 215.00</td> </tr> <tr> <td>1937+020.00</td> <td>-</td> <td>1937+160.00</td> <td>BS 140.00</td> </tr> <tr> <td>1937+160.00</td> <td>-</td> <td>1937+180.00</td> <td>LS 20.00</td> </tr> <tr> <td>1937+180.00</td> <td>-</td> <td>1937+360.00</td> <td>BS 180.00</td> </tr> <tr> <td>1937+360.00</td> <td>-</td> <td>1937+400.00</td> <td>LS 40.00</td> </tr> <tr> <td>1937+460.00</td> <td>-</td> <td>1937+511.00</td> <td>RS 51.00</td> </tr> <tr> <td colspan="3">Net Length: 1,037.00 In.m. /</td> <td>1.04 km.</td> </tr> <tr> <td colspan="3">Lane Kilometer: 1,572.00 km.</td> <td></td> </tr> </tbody> </table>	Station Limits:			Length	1936+374.00	-	1936+765.00	RS 391.00	1936+765.00	-	1936+980.00	BS 215.00	1937+020.00	-	1937+160.00	BS 140.00	1937+160.00	-	1937+180.00	LS 20.00	1937+180.00	-	1937+360.00	BS 180.00	1937+360.00	-	1937+400.00	LS 40.00	1937+460.00	-	1937+511.00	RS 51.00	Net Length: 1,037.00 In.m. /			1.04 km.	Lane Kilometer: 1,572.00 km.			
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MINIMUM EQUIPMENT REQUIREMENT :				TECHNICAL PERSONNEL REQUIRED :			
Description	No.	Description	No.	Description	No.		
Dump Truck	12	Water Pump	1	Project Engineer	1		
Transit Mixer	4	Concrete Screeder	1	Materials Engineer	1		
Bulldozer	2	Concrete Vibrator	2	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						

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	0.86	L.S.	1.00	372,700.10		372,700.10
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.66	L.S.	1.00	282,506.67		282,506.67
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.47	month	5.67	202,399.40		35,717.54
PART B - OTHER GENERAL REQUIREMENTS							
B.4(1)	Construction Survey & Staking	0.16	km.	1.04	69,759.47		67,270.46
B.5	Project Billboard/Signboard	0.03	each	2.00	10,809.20		5,404.60
B.7	Occupation Safety and Health Program	0.50	month	5.67	214,117.20		37,785.39
B.9	Mobilization & Demobilization	0.98	L.S.	1.00	421,687.00		421,687.00
PART C - EARTHWORKS							
101(4)a6	Removal of Actual Structures/Obstruction	0.48	Ln.m	1,572.00	207,475.03		131.98
101(4)c	Removal of Actual Structures/Obstruction	0.46	Ln.m	1,572.00	198,671.83		126.38
102(2)	Surplus Common Excavation	1.14	cu.m.	4,767.00	490,295.19		102.85
103(3)	Foundation Fill	19.31	cu.m.	6,019.00	8,326,160.95		1,383.31
105(1)a	Subgrade Preparation	0.34	sq.m.	9,204.00	147,066.11		15.98
PART D - SUBBASE AND BASE COURSE							
200(1)	Aggregate Subbase Course	6.29	cu.m.	3,087.00	2,709,987.78		877.87
PART E - SURFACE COURSES							
311(1)e1	Portland Cement Concrete Pavement	38.13	sq.m.	11,458.00	16,439,556.75		1,434.77

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ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST		
					TOTAL		UNIT COST
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES							
404(1)a	Reinforcing Steel Bar, Grade 40	7.56	kg.	69,168.00	3,259,102.01		47.12
404(1)b	Reinforcing Steel Bar, Grade 60	0.60	kg.	5,241.00	257,954.89		49.22
405(1)a3	Structural Concrete, Class A	13.30	cu.m.	898.00	5,733,633.55		6,384.89
407(8)	Concrete Structures (Lean Concrete)	0.74	cu.m.	145.59	319,858.63		2,196.98
502(3)a6	Catch Basin	4.95	each	96.00	2,135,626.48		22,246.11
502(4)a6	Concrete Cover	1.55	each	96.00	667,472.66		6,952.84
502(5)	Metal Frames and Gratings	1.09	pair	96.00	469,645.15		4,892.14
PART H - MISCELLANEOUS STRUCTURES							
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.40	sq.m.	236.00	174,433.44		739.12
TOTAL		100.00			P 43,110,919.47		

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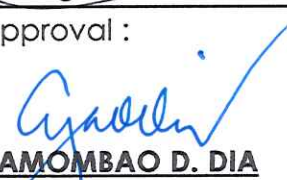
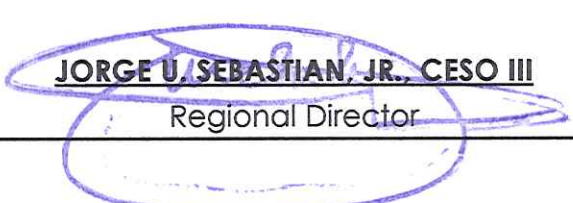
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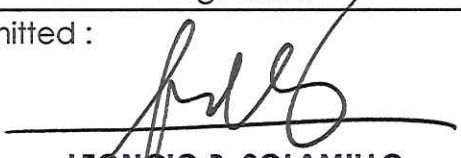
NAME OF PROJECT : Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Zamboanga City

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	1.51	3,013,898.54
A.2. Equipment Expenses	3.13	6,251,863.68
A.3. Materials	16.92	33,845,157.26
SUB-TOTAL (DIRECT COST)	21.56	P 43,110,919.47
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (12 % Max. of D.C.)	2.52	5,038,825.10
B.2. Profit (8 % Max. of D.C.)	1.70	3,398,946.65
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	1.29	2,577,434.56
SUBTOTAL (CONTRACT COST)	27.06	P 54,126,125.78
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	69.44	138,873,874.22
4. Physical Reserved	0.00	
TOTAL ESTIMATED PROJECT COST	100.00	P 200,000,000.00

Prepared :  MARK ANTHON P. REBOLLOS Engineer II	Checked :  JERALD R. BARRERA Engineer II
Submitted :  LEONCIO B. SOLAMILLO Chief, Construction Division	Recommending Approval :  CAYAMOMBAO D. DIA Assistant Regional Director
Approved :  JORGE U. SEBASTIAN, JR., CESO III Regional Director	

NAME OF PROJECT : Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Zamboanga City

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Submitted :  LEONCIO B. SOLAMILLO Chief, Construction Division	Recommending Approval :  CAYAMOMBAO D. DIA Assistant Regional Director
Approved :  JORGE U. SEBASTIAN, JR., CESO III Regional Director	

APPROVAL BUDGET FOR THE CONTRACT

Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st ID

Stations: 1,936,374.00 to 1,936,745.00

Length: 1,037.00 In.m.

Contract Duration: 170 CD

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN % OCM	PROFIT	%	TOTAL MARK-UPS VALUE (5) x (8)	VAT (10) 5%[(5) + (9)]	TOTAL INDIRECT COST (11) (9) + (10)	TOTAL COST (12) (5) + (11)	UNIT COST (13) (12) / (3)
PART A - FACILITIES FOR THE ENGINEER												
A.1(13)	Construction of Field Office for the Engineer	1.00	L.S.	372,700.10	12.00	8.00	20.00	74,540.02	22,382.01	96,902.03	469,602.12	469,602.12
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	282,506.67	-	8.00	8.00	22,600.53	15,255.36	37,855.89	320,362.56	320,362.56
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	5.67	month	202,399.40	-	-	-	-	10,119.97	10,119.97	212,519.37	37,503.42
TOTAL OF PART A				857,606.16				97,140.55	47,737.34	144,877.89	1,002,484.05	
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey and Staking	1.04	km.	69,759.47	12.00	8.00	20.00	13,951.89	4,185.57	18,137.46	87,896.93	84,740.78
B.5	Project Billboard/Signboard	2.00	each	10,809.20	12.00	8.00	20.00	2,161.84	648.55	2,810.39	13,619.59	6,809.80
B.7	Occupation Safety and Health Program	5.67	month	214,117.20	-	8.00	8.00	17,129.38	11,562.33	28,691.70	242,808.90	42,848.63
B.9	Mobilization & Demobilization	1.00	L.S.	421,687.00	-	-	-	-	21,084.35	21,084.35	442,771.35	442,771.35
TOTAL OF PART B				716,372.87				33,243.11	37,480.80	70,723.91	787,096.78	
PART C - EARTHWORKS												
101(4)a6	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	207,425.03	12.00	8.00	20.00	41,495.01	12,448.50	53,943.51	261,416.54	166.30
101(4)c	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	198,471.83	12.00	8.00	20.00	39,734.37	11,920.31	51,654.68	250,126.51	159.24
102(2)	Surplus Common Excavation	4,767.00	cum.	490,295.19	12.00	8.00	20.00	98,059.04	29,417.71	127,476.75	617,771.93	129.59
103(3)	Foundation Fill	6,019.00	cum.	8,326,140.95	12.00	8.00	20.00	1,655,232.19	499,569.66	2,144,801.85	10,490,942.79	1,742.97
105(1)a	Subgrade Preparation	9,204.00	sq.m.	147,066.11	12.00	8.00	20.00	29,413.22	8,893.97	38,307.19	185,303.30	20.13
TOTAL OF PART C				9,349,649.11				1,873,933.92	562,180.15	2,436,113.97	11,805,768.08	
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course	3,087.00	cum.	2,709,287.78	12.00	8.00	20.00	541,997.56	162,599.27	704,596.82	3,414,884.60	1,106.12
TOTAL OF PART D				2,709,287.78				541,997.56	162,599.27	704,596.82	3,414,884.60	
PART E - SURFACE COURSES												
311(1)e1	Portland Cement Concrete Pavement	11,458.00	sq.m.	16,439,556.75	12.00	8.00	20.00	3,287,911.35	986,373.40	4,274,284.75	20,713,841.50	1,807.81
TOTAL OF PART E				16,439,556.75				3,287,911.35	986,373.40	4,274,284.75	20,713,841.50	
PART F - DRAINAGE AND SLOPE PROTECTION STRUCTURES												
404(1)a	Reinforcing Steel Bar, Grade 40	69,148.00	kg.	3,259,102.01	12.00	8.00	20.00	651,820.40	195,546.12	847,366.52	4,106,468.54	59.37
404(1)b	Reinforcing Steel Bar, Grade 60	5,241.00	kg.	257,954.89	12.00	8.00	20.00	51,590.98	15,477.29	67,068.27	325,023.16	62.02
405(1)a3	Structural Concrete, Class A	898.00	cum.	5,733,633.55	12.00	8.00	20.00	1,146,726.71	344,018.01	1,490,744.72	7,224,378.27	8,044.96
407(8)	Concrete Structures (Lean Concrete)	145.59	cum.	319,858.63	12.00	8.00	20.00	63,971.73	19,191.52	83,163.24	403,021.87	2,768.20
502(3)a6	Catch Basin	94.00	each	2,135,628.48	12.00	8.00	20.00	427,125.30	128,137.59	555,262.88	2,690,891.36	28,030.10
502(4)a6	Concrete Cover	94.00	each	667,472.66	12.00	8.00	20.00	133,494.53	40,048.36	173,542.89	841,015.55	8,760.58
502(5)	Metal Frames and Gratings	94.00	pair	469,445.15	12.00	8.00	20.00	93,929.03	28,178.71	122,107.74	591,552.89	6,144.09
TOTAL OF PART F				12,943,293.37				2,568,658.67	770,597.60	3,339,256.28	16,182,549.64	
PART G - MISCELLANEOUS STRUCTURES												
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	236.00	sq.m.	174,433.44	12.00	8.00	20.00	34,886.69	10,466.01	45,352.69	219,786.13	931.30
TOTAL OF PART G				174,433.44				34,886.69	10,466.01	45,352.69	219,786.13	
TOTAL				41,101,919.47				8,437,771.75	2,577,434.56	11,015,206.31	54,126,125.78	

Prepared by:

Submitted by:

Recommending Approval:

Approved by:

BELEN A. SAPIA
Head, BAC Technical Working Group

LORENZO B. SOLAMILLO
Chief, Construction Division

CAYAMONBADO DIA
Assistant, Regional Director

JORGE U. SEBASTIAN JR., CESO III
Regional Director

APPROVAL BUDGET FOR THE CONTRACT

Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD

Stations : 1,936.374.00 to 1,936.765.00		Length: 1,037.00 In.m.		Contract Duration : 170 CD									
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST	
(1)	(2)	(3)	(4)	(5)	OCM	PROFIT	%	VALUE	(10)	(11)	(12)	(13)	
					(6)	(7)	(8)	(9)	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.	372,700.10	12.00	8.00	20.00	74,540.02	22,342.01	96,902.03	469,602.12	469,602.12	
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	282,506.67	-	8.00	8.00	22,400.53	15,255.36	37,655.89	320,362.56	320,362.56	
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	5.67	month	202,399.40	-	-	-	-	10,119.97	10,119.97	212,519.37	37,503.42	
TOTAL OF PART A				857,606.16				97,140.55	47,737.34	144,877.89	1,002,484.05		
PART B - OTHER GENERAL REQUIREMENTS													
B.4(1)	Construction Survey & Staking	1.04	km.	69,759.47	12.00	8.00	20.00	13,951.89	4,185.57	18,137.46	87,896.93	84,760.78	
B.5	Project Billboard/Signboard	2.00	each	10,800.20	12.00	8.00	20.00	2,161.84	648.55	2,810.39	13,619.59	6,809.80	
B.7	Occupational Safety and Health Program	5.67	month	214,117.20	-	8.00	8.00	17,129.38	11,542.33	28,691.70	242,808.90	42,848.63	
B.9	Mobilization & Demobilization	1.00	L.S.	421,487.00	-	-	-	-	21,084.35	21,084.35	442,571.35	442,571.35	
TOTAL OF PART B				716,372.87				33,243.11	37,480.80	70,723.91	787,096.78		
PART C - EARTHWORKS													
101(4)a6	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	207,475.03	12.00	8.00	20.00	41,495.01	12,448.50	53,943.51	261,418.54	166.30	
101(4)c	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	198,671.83	12.00	8.00	20.00	39,734.37	11,920.31	51,654.68	250,326.51	159.24	
102(2)	Surplus Common Excavation	4,767.00	cum.	490,295.19	12.00	8.00	20.00	98,039.04	29,417.71	127,476.75	617,771.93	129.59	
103(3)	Foundation Fill	6,019.00	cum.	8,326,160.95	12.00	8.00	20.00	1,665,232.19	499,569.66	2,164,801.85	10,490,962.79	1,742.97	
105(1)a	Subgrade Preparation	9,204.00	sq.m.	147,066.11	12.00	8.00	20.00	29,413.22	8,823.97	38,237.19	185,303.30	20.13	
TOTAL OF PART C				9,369,669.11				1,873,933.82	562,180.15	2,436,113.97	11,805,783.08		
PART D - SUBBASE AND BASE COURSE													
200(1)	Aggregate Subbase Course	3,087.00	cum.	2,709,987.78	12.00	8.00	20.00	541,997.56	162,599.27	704,596.82	3,414,584.60	1,106.12	
TOTAL OF PART D				2,709,987.78				541,997.56	162,599.27	704,596.82	3,414,584.60		
PART E - SURFACE COURSES													
311(1)e1	Portland Cement Concrete Pavement	11,458.00	sq.m.	16,439,556.75	12.00	8.00	20.00	3,287,911.35	986,373.40	4,274,284.75	20,713,841.50	1,807.81	
TOTAL OF PART E				16,439,556.75				3,287,911.35	986,373.40	4,274,284.75	20,713,841.50		
PART F - DRAINAGE AND SLOPE PROTECTION STRUCTURES													
404(1)a	Reinforcing Steel Bar, Grade 40	69,168.00	kg.	3,259,102.01	12.00	8.00	20.00	651,820.40	195,546.12	847,366.52	4,106,468.54	59.37	
404(1)b	Reinforcing Steel Bar, Grade 40	5,241.00	kg.	257,954.89	12.00	8.00	20.00	51,590.98	15,477.29	67,068.27	325,023.16	62.02	
405(1)a3	Structural Concrete, Class A	898.00	cum.	5,733,633.55	12.00	8.00	20.00	1,146,726.71	344,018.01	1,490,744.72	7,224,378.27	8,044.96	
407(8)	Concrete Structures (Lean Concrete)	145.59	cum.	319,858.63	12.00	8.00	20.00	63,971.73	19,191.52	83,163.24	403,021.87	2,768.20	
502(3)a6	Catch Basin	96.00	each	2,135,026.48	12.00	8.00	20.00	427,125.30	128,137.59	555,262.88	2,690,289.36	28,030.10	
502(4)a6	Concrete Cover	96.00	each	667,472.66	12.00	8.00	20.00	133,494.53	40,048.36	173,542.89	841,015.55	8,760.58	
502(5)	Metal Frames and Gratings	96.00	pair	469,645.15	12.00	8.00	20.00	93,929.03	28,178.71	122,107.74	591,752.89	6,164.09	
TOTAL OF PART F				12,843,293.37				2,568,658.67	770,597.60	3,339,256.28	16,182,549.64		
PART G - MISCELLANEOUS STRUCTURES													
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	236.00	sq.m.	174,433.44	12.00	8.00	20.00	34,886.69	10,466.01	45,352.69	219,786.13	931.30	
TOTAL OF PART G				174,433.44				34,886.69	10,466.01	45,352.69	219,786.13		
TOTAL				43,110,919.47				8,437,771.75	2,577,434.56	11,015,206.31	64,126,126.78		

Prepared by:

Submitted by:

Recommending Approval:

Approved by:

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Assistant Regional Director

JORGE B. SOLAMILLO, JR., CISO III
Regional Director

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
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

7.00 m. x 9.00 m., 1 - Classroom, for
Government Field Office, fully furnished as
shown on plans

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.00	611.92	4,895.36
	b. Mason	3	8.00	443.20	10,636.80
	c. Carpenter	3	8.00	443.20	10,636.80
	d. Laborer	6	8.00	342.24	16,427.52
Sub-total for A					P 42,596.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.00	1,376.00	8,256.00
	b. Water Truck	1	1.00	19,600.00	19,600.00
	Minor Tools 10% of Labor				4,259.65
Sub-total for B					P 32,115.65
C.	Total (A+B)				74,712.13
D.	Output/day	- L.S./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	I. Earthworks (Excavation, Embankment, Bedding)				
	a. Gravel Bedding	3.50	cu.m.	901.00	3,153.50
	b. Selected Fill	10.00	cu.m.	328.00	3,280.00
	c. Soil Poisoning	2.50	L	1,900.00	4,750.00
	II. Concrete Works (Footings, Columns, Beams & Slab on Grade)				
	a. Portland Cement	90.00	bag	280.00	25,200.00
	b. Crushed Gravel	21.00	cu.m.	901.00	18,921.00
	c. Washed Sand	18.00	cu.m.	901.00	16,218.00
	III. Reinforcing Bars (Footings, 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.	80.00	1,600.00
	IV. Formworks (Columns & Beams)				
	a. Coco Lumber	400.00	bd.ft.	24.50	9,800.00
	b. Ordinary Plywood, 1/4"x4"x8'	18.00	pc.	385.00	6,930.00
	c. CWN, Assorted	5.00	kg.	65.00	325.00
	V. Masonry Works (masonry walls & plastering)				
	a. CHB 6" thk	650.00	pc.	16.00	10,400.00
	b. Portland Cement	45.00	bag	280.00	12,600.00
	c. Washed Sand	8.00	cu.m.	901.00	7,208.00
	d. 10mm dia. X 6m RSB	65.00	kg.	38.00	2,470.00
	e. No. 16 GI Tie Wire	2.50	kg.	80.00	200.00
	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 148,660.02
Sub-total for E (I + II + III)					P 297,987.97
F.	Direct Cost (C + E)				372,700.10
G.	Overhead, Contingencies and Miscellaneous	12% per D.O. 197, s. 2016			44,724.01
H.	Contractor's Profit (CP)	8% per D.O. 197, s. 2016			29,816.01
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016			22,362.01
J.	Total Unit Cost				469,602.12

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m.
Unit of Measurement: L.S.
Output per hour:
Quantity: 1.00

*For Government Field Office, fully furnished
as shown on plans*

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.	166.33	2,494.95
	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.	113.00	1,130.00
	c. Pre-painted flashing, ga. 24	2.00	ln.m.	113.00	226.00
	d. Teckscrew 1 1/2"	1,000.00	pc.	1.25	1,250.00
	e. Roof Sealant	2.00	L	250.00	500.00
	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.	385.00	11,550.00
	c. Finishing Nails	5.00	kg.	100.00	500.00
	d. Common Wire Nails	10.00	kg.	65.00	650.00
	e. Wood Preservative Brown	5.00	L	400.00	2,000.00
Sub-total for E				P	105,329.95
F.	Direct Cost (C + E)				
G.	Overhead, Contingencies and Miscellaneous	12% 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				

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m.
Unit of Measurement: L.S.
Output per hour:
Quantity: 1.00

*For Government Field Office, fully furnished
as shown on plans*

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 Convenience outlet	3.00	pc	170.00	510.00
	d. two gang switch	3.00	pc	170.00	510.00
	e. 3.5mm2 thw	3.00	roll	3,600.00	10,800.00
	f. 8.00mm2 thw	25.00	m	70.00	1,750.00
	g. 15mm dia. PVC pipe	20.00	pc	73.00	1,460.00
	h. 15mm dia. PVC Coupling	25.00	pc	5.00	125.00
	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	9.00	27.00
	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	7,375.00	7,375.00
	b. Lavatory (include fitting & Accessories)	1.00	set	6,615.00	6,615.00
	c. 1/2" GI Pipe S-40	2.00	pc	166.00	332.00
	d. 1/2" Water Faucet	2.00	pc	321.00	642.00
	e. 1/2" Assorted Connector	8.00	pc	20.00	160.00
	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	43,998.00
F.	Direct Cost (C + E)				
G.	Overhead, Contingencies and Miscellaneous		12% 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: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
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: 1.00

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	2.00	unit	1,370.00	2,740.00
	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	1.00	L.S.	45,000.00	45,000.00
	(Folders, Bond Paper, Yellow Pads, Ball Pens, Pencil, Envelopes, etc.)				
	Kitchenware	1.00	L.S.	30,000.00	30,000.00
	(Plates, Spoons & Forks, Glasses, etc.)				
	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	5.67	mos.	3,000.00	17,000.00
	b. Water Bill	5.67	mos.	1,500.00	8,500.00
	c. LPG (11 kg)	5.67	mos.	1,000.00	5,666.67
Sub-total for E				P	282,506.67
F.	Direct Cost (C + E)				282,506.67
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		22,600.53
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		15,255.36
J.	Total Unit Cost				320,362.56

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
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: 5.67

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	170	422.32	71,794.40
Sub-total for A					P 71,794.40
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)				71,794.40
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Diesel	1,700.00	L	31.00	52,700.00
	b. Spare Parts	1.00	L.S.	40,000.00	40,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	7,905.00	7,905.00
	d. Miscellaneous	1.00	L.S.	30,000.00	30,000.00
Sub-total for E					P 130,605.00
F.	Direct Cost (C + E)				202,399.40
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		10,119.97
J.	Total Unit Cost				37,503.42

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: B.4(1) Construction Survey & Staking
Unit of Measurement: km.
Output per hour: 0.04
Quantity: 1.037

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Field Works				
	a. Geodetic Engineer	1	3.24	833.31	2,700.45
	b. Skilled Laborer	3	3.24	443.20	4,308.74
	c. Laborer	3	3.24	342.24	3,327.21
	For Office Works				
	a. Geodetic Engineer	1	9.72	833.31	8,101.34
	b. Skilled Laborer	2	9.72	443.20	8,617.47
Sub-total for A					P 27,055.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories	1	3.24	800.00	2,592.50
	Minor Tools 10% of Labor				2,705.52
Sub-total for B					P 5,298.02
C.	Total (A+B)				32,353.22
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)	75.00	pc	400.00	30,000.00
	b. Blue Printing	375.00	pc	15.00	5,625.00
	Miscellaneous 5% of Materials Cost				1,781.25
Sub-total for E					P 37,406.25
F.	Direct Cost (C + E)				69,759.47
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		8,371.14
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		5,580.76
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		4,185.57
J.	Total Unit Cost				84,760.78

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
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.	750.00	1,500.00
	b. Tarpaulin (4' x 8')	2.00	pc.	1,000.00	2,000.00
	c. Assorted Lumber	100.00	bd.ft.	37.00	3,700.00
	d. Assorted CW Nails	2.00	kg.	65.00	130.00
Sub-total for E					P 7,330.00
F.	Direct Cost (C + E)				10,809.20
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		1,297.10
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		864.74
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		648.55
J.	Total Unit Cost				6,809.80

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: B.7 Occupation Safety and Health Program
Unit of Measurement: month
Output per hour:
Quantity: 5.67

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practioner	1	85.00	611.92	52,013.20
	b. First Aider	1	170.00	443.20	75,344.00
Sub-total for A					P 127,357.20
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)				187,357.20
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 Length)	24.00	pc.	100.00	2,400.00
	d. Safety Hats	24.00	pc,	600.00	14,400.00
Sub-total for E					P 26,760.00
F.	Direct Cost (C + E)				214,117.20
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		17,129.38
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		11,562.33
J.	Total Unit Cost				42,848.63



DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
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	4.00	19,600.00	78,400.00
	c. Backhoe	1	3.00	12,296.00	36,888.00
	e. Dumptruck	2	3.00	11,360.00	68,160.00
	f. Payloader	1	3.00	13,864.00	41,592.00
	h. Road Roller	1	2.00	13,216.00	26,432.00
Sub-total for B				P	421,687.00
C.	Total (A+B)				421,687.00
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)				421,687.00
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		21,084.35
J.	Total Unit Cost				442,771.35



DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 101(4)a6 Removal of Actual Structures/Obstruction
Unit of Measurement: Ln.m
Output per hour: 35.00
Quantity: 1,572.00

Removal of Existing lateral drainage

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.61	611.92	3,435.49
	b. Unskilled Labor	2	5.61	342.24	3,842.87
Sub-total for A				P	7,278.36
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	5.61	15,984.80	89,743.23
	b. Payloader (1.50 cu.m.), LX80-2C	1	5.61	13,864.00	77,836.46
	c. Dump Truck (12 cu.yd.)	1	2.81	11,360.00	31,889.14
	Minor Tools 10% of Labor Cost				727.84
Sub-total for B				P	200,196.67
C.	Total (A+B)				207,475.03
D.	Output/day	280.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				207,475.03
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		24,897.00
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		16,598.00
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		12,448.50
J.	Total Unit Cost				166.30

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 101(4)c Removal of Actual Structures/Obstruction
Unit of Measurement: Ln.m
Output per hour: 35.00
Quantity: 1,572.00

Removal of existing curb and gutter

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.61	611.92	3,435.49
	b. Unskilled Labor	2	5.61	342.24	3,842.87
Sub-total for A				P	7,278.36
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe with Breaker (0.80 cu.m.)	1	5.61	15,984.80	89,743.23
	b. Backhoe (0.80 cu.m.)	1	5.61	12,296.00	69,033.26
	c. Dump Truck (12 cu.yd.)	1	2.81	11,360.00	31,889.14
	Minor Tools 10% of Labor Cost				727.84
Sub-total for B				P	191,393.47
C.	Total (A+B)				198,671.83
D.	Output/day	280.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				198,671.83
G.	Overhead, Contingencies and Miscellaneous		121% per D.O. 197, s. 2016		240,392.91
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		15,893.75
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		22,747.92
J.	Total Unit Cost				303.88

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 102(2) Surplus Common Excavation
Unit of Measurement: cu.m.

Output per hour: 80.00
Quantity: 4,767.00

For Disposal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.45	611.92	4,557.85
	c. Unskilled Labor	2	7.45	342.24	5,098.31
Sub-total for A				P	9,656.15
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bulldozer, D6H SERIES II PSDS/DD	1	7.45	27,032.00	201,346.16
	b. Payloader (1.50 cu.m.)	1	7.45	13,864.00	103,265.14
	c. Payloader (1.50 cu.m.) - at disposal area	1	2.23	13,864.00	30,979.54
	d. Dump Truck (12 cu.yd.)	3	7.45	11,360.00	253,842.75
	e. Backhoe (0.80 cu.m)	1	7.45	12,296.00	91,585.99
	Minor Tools 10% of Labor Cost				965.62
Sub-total for B				P	480,639.03
C.	Total (A+B)				490,295.19
D.	Output/day	640.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				490,295.19
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		58,835.42
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		39,223.61
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		29,417.71
J.	Total Unit Cost				129.59

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 103(3) Foundation Fill
Unit of Measurement: cu.m.
Output per hour: 5.00
Quantity: 6,019.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	150.48	611.92	92,078.66
	b. Leadman	4	150.48	561.36	337,882.58
	c. Unskilled Labor	16	150.48	342.24	823,977.02
	use quadruple gang of labor & equipment				
Sub-total for A					P 1,253,938.27
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Plate Compactor (5 hp)	4	150.48	984.00	592,269.60
	b. Water Truck/Pump (16000 L)	4	1.50	19,600.00	117,972.40
	Minor Tools 10% of Labor Cost				125,393.83
Sub-total for B					P 835,635.83
C.	Total (A+B)				2,089,574.10
D.	Output/day	40.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Filling Materials (well-graded sand)	6,921.85	cu.m.	901.00	6,236,586.85
Sub-total for E					P 6,236,586.85
F.	Direct Cost (C + E)				8,326,160.95
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		999,139.31
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		666,092.88
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		499,569.66
J.	Total Unit Cost				1,742.97

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 105(1)a Subgrade Preparation
Unit of Measurement: sq.m.
Output per hour: 300.00
Quantity: 9,204.00

Variable Width

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.84	611.92	2,346.71
	b. Unskilled Laborer	2	3.84	342.24	2,624.98
Sub-total for A					P 4,971.69
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	3.84	17,384.00	66,667.64
	b. Vibratory Roller (10 mt), SD100DC	1	3.84	14,768.00	56,635.28
	c. Water Truck/Pump (16000 L)	1	0.96	19,600.00	18,791.50
Sub-total for B					P 142,094.42
C.	Total (A+B)				147,066.11
D.	Output/day	2,400.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				147,066.11
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		17,647.93
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		11,765.29
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		8,823.97
J.	Total Unit Cost				20.13

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 200(1) Aggregate Subbase Course
Unit of Measurement: cu.m.

Output per hour: 50.00
Quantity: 3,087.00

0.30 m. thk., Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.72	611.92	4,722.49
	b. Unskilled Labor	2	7.72	342.24	5,282.47
Sub-total for A				P	10,004.97
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	7.72	17,384.00	134,161.02
	b. Vibratory Roller (10 mt), SD100DC	1	7.72	14,768.00	113,972.04
	c. Water Truck/Pump (16000 L)	1	1.93	19,600.00	37,815.75
Sub-total for B				P	285,948.81
C.	Total (A+B)				295,953.78
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)	3,550.05	cu.m.	680.00	2,414,034.00
Sub-total for E				P	2,414,034.00
F.	Direct Cost (C + E)				2,709,987.78
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		325,198.53
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		216,799.02
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		162,599.27
J.	Total Unit Cost				1,106.12



DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 311(1)e1 Portland Cement Concrete Pavement
Unit of Measurement: sq.m.
Output per hour: 57.50
Quantity: 11,458.00

0.28 m. thick, W=3.83m & 5.35m

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	24.91	611.92	15,242.13
	b. Skilled Labor	4	24.91	443.20	44,158.14
	c. Unskilled Labor	12	24.91	342.24	102,297.02
Sub-total for A					P 161,697.29
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	24.91	10,544.00	1,050,549.15
	b. Concrete Vibrator	2	24.91	730.00	36,366.70
	c. Concrete Batch Plant (30 cu.m.)	1	24.91	14,076.00	350,614.80
	d. Payloader (1.50 cu.m.), LX80-2C	1	24.91	13,864.00	345,334.16
	e. Concrete Screeder (5.5 hp)	1	24.91	4,360.00	108,601.91
	f. Water truck/Pump (16000 L)	1	24.91	19,600.00	488,210.43
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	24.91	261.04	6,502.17
	h. Bar Cutter, Single Phase	1	2.49	1,758.00	4,378.95
	Minor Tools 5% of Labor				8,084.86
Sub-total for B					P 2,398,643.13
C.	Total (A+B)				2,560,340.42
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	5,729.00	kg.	38.00	217,702.00
	b. Curing Compound	3,322.82	L	35.00	116,298.70
	c. Asphalt Sealant	1,947.86	L	100.00	194,786.00
	d. Steel Forms (Rental)	5,270.68	m	60.00	316,240.80
	e. Sand	1,764.53	cu.m.	901.00	1,589,843.33
	f. Gravel	3,208.24	cu.m.	901.00	2,890,624.24
	g. Cement	30,478.28	bag	280.00	8,533,918.40
	h. Concrete Saw (Diamond-Blade 14" Ø)	1.72	pc.	2,500.00	4,296.75
	i. Pipe Sleeve, 2" Ø	89.37	m.	61.00	5,451.72
	j. Grease/Tar	89.37	L	112.50	10,054.40
Sub-total for E					P 13,879,216.33
F.	Direct Cost (C + E)				16,439,556.75
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		1,972,746.81
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,315,164.54
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		986,373.40
J.	Total Unit Cost				1,807.81

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening and Construction of Four (4) Lanes Concreting Road Zamboanga City By-Pass Road (Culianan-Patalon Section) Zamboanga City

Item No./Description: 404(1)a Reinforcing Steel Bar, Grade 40
Unit of Measurement: kg.

Output per hour: 180.00

Quantity: 69,168.00

For lateral drainage

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	48.03	611.92	29,392.56
	b. Skilled Labor	2	48.03	443.20	42,576.75
	c. Unskilled Labor	8	48.03	342.24	131,511.42
Sub-total for A					P 203,480.73
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	24.02	1,758.00	42,221.30
	b. Bar Bender	1	24.02	2,812.00	67,534.87
	c. Cargo Truck (9-10 mt)	1	7.21	9,696.00	69,859.68
Sub-total for B					P 179,615.85
C.	Total (A+B)				383,096.57
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	1,452.53	kg.	80.00	116,202.24
	b. Reinforcing Steel Bar, Grade 40 (w/ 5% Wastage)	72,626.40	kg.	38.00	2,759,803.20
Sub-total for E					P 2,876,005.44
F.	Direct Cost (C + E)				3,259,102.01
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		391,092.24
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		260,728.16
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		195,546.12
J.	Total Unit Cost				59.37

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening and Construction of Four (4) Lanes Concreting Road Zamboanga City By-Pass Road (Culianan-Patalon Section) Zamboanga City

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

Unit of Measurement: kg.

Output per hour: 180.00

Quantity: 5,241.00

For cross drains at junctions

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.64	611.92	2,227.13
	b. Skilled Labor	2	3.64	443.20	3,226.13
	c. Unskilled Labor	8	3.64	342.24	9,964.89
Sub-total for A					P 15,418.15
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	1.82	1,758.00	3,199.19
	b. Bar Bender	1	1.82	2,812.00	5,117.25
	c. Cargo Truck (9-10 mt)	1	0.55	9,696.00	5,293.41
Sub-total for B					P 13,609.86
C.	Total (A+B)				29,028.01
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	110.06	kg.	80.00	8,804.88
	b. Reinforcing Steel Bar, Grade 60 (w/ 5% Wastage)	5,503.05	kg.	40.00	220,122.00
Sub-total for E					P 228,926.88
F.	Direct Cost (C + E)				257,954.89
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		30,954.59
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		20,636.39
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		15,477.29
J.	Total Unit Cost				62.02

AK

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening and Construction of Four (4) Lanes Concreting Road Zamboanga City By-Pass Road (Culianan-Patalon Section) Zamboanga City

Item No./Description: 405(1)a3 Structural Concrete, Class A

Unit of Measurement: cu.m.

Output per hour: 5.60

Quantity: 898.00

For lateral drainage and cross drains at junctions

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	20.04	611.92	12,265.72
	b. Leadman	4	20.04	561.36	45,009.04
	c. Skilled Labor	16	20.04	443.20	142,140.57
	d. Unskilled Labor	32	20.04	342.24	219,522.51
	Installation/Removal of Formworks				
	a. Leadman	4	20.04	561.36	45,009.04
	b. Skilled Labor	16	20.04	443.20	142,140.57
	c. Unskilled Labor	32	20.04	342.24	219,522.51
	use quadruple gang of labor & equipment				
Sub-total for A					P 825,609.98
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	4	20.04	1,376.00	110,325.71
	b. Concrete Vibrator	4	20.04	730.00	58,530.36
	c. Water Truck/Pump (16000 L)	4	2.00	19,600.00	157,150.00
	Minor Tools 5% of Labor Cost				41,280.50
Sub-total for B					P 367,286.57
C.	Total (A+B)				1,192,896.55
D.	Output/day	44.80	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	62,860.00	bd.ft.	37.00	581,455.00
	b. Marine Plywood (1/2" x 4' x 8') - 4 uses	1,436.80	pc.	880.00	316,096.00
	c. Assorted CWN (1 kg/100 bd.ft. of Lumber)	628.60	kg.	65.00	40,859.00
	d. Cement	8,531.00	bag	280.00	2,388,680.00
	e. Sand	449.00	cu.m.	901.00	404,549.00
	f. Gravel	898.00	cu.m.	901.00	809,098.00
Sub-total for E					P 4,540,737.00
F.	Direct Cost (C + E)				5,733,633.55
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		688,036.03
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		458,690.68
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		344,018.01
J.	Total Unit Cost				8,044.96

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening and Construction of Four (4) Lanes Concreting Road Zamboanga City By-Pass Road (Culianan-Patalon Section) Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: T.40

Quantity: 145.59

For lateral drainage and cross drains at junctions

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	13.00	611.92	7,954.41
	c. Skilled Labor	1	13.00	443.20	5,761.20
	d. Unskilled Labor	2	13.00	342.24	8,897.63
Sub-total for A					P 22,613.25
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	13.00	1,376.00	17,886.77
	b. Concrete Vibrator	1	13.00	730.00	9,489.35
	c. Water Truck/Pump (16000 L)	1	1.30	19,600.00	25,478.25
Sub-total for B					P 52,854.37
C.	Total (A+B)				75,467.62
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	1,383.11	bag	280.00	96,817.35
	b. Sand	72.80	cu.m.	901.00	16,397.07
	c. Gravel	145.59	cu.m.	901.00	131,176.59
Sub-total for E					P 244,391.01
F.	Direct Cost (C + E)				319,858.63
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		38,383.04
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		25,588.69
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		19,191.52
J.	Total Unit Cost				2,768.20

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 502(3)a6 Catch Basin
Unit of Measurement: each
Output per hour: 3.00
Quantity: 96.00

20 meters interval

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	26.00	611.92	15,909.92
	b. Leadman	3	26.00		
	b. Skilled Labor	6	26.00	443.20	69,139.20
	c. Unskilled Labor	12	26.00	342.24	106,778.88
	use triple gang of labor & equipment				
Sub-total for A				P	191,828.00
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	3	8.00	1,376.00	33,024.00
	b. Water Truck/Pump (16000 L)	3	8.00	19,600.00	470,400.00
	c. Concrete vibrator	3	8.00	730.00	17,520.00
	b. Bar cutter	3	1.00	1,758.00	5,274.00
	b. Bar bender	3	1.00	2,812.00	8,436.00
	Minor Tools 10% of Labor				19,182.80
Sub-total for B				P	553,836.80
C.	Total (A+B)				745,664.80
D.	Output/day	24.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	1,699.20	bag	280.00	475,776.00
	b. Sand	75.84	cu.m.	901.00	68,331.84
	c. Gravel	150.72	cu.m.	901.00	135,798.72
	d. 1/4" Ordinary Plywood - 2 uses	713.28	pc.	385.00	137,306.40
	e. Coco Lumber - 2 uses	7,517.76	bd.ft.	24.50	92,092.56
	f. 10 mm. dia. Reinforcing Steel Bar	12,014.40	kg.	38.00	456,547.20
	g. #16 GI Tie Wire	240.29	kg.	80.00	19,223.04
	h. Assorted CWN (1 kg/100 bd.ft. of Lumber)	75.17	kg.	65.00	4,885.92
Sub-total for E				P	1,389,961.68
F.	Direct Cost (C + E)				2,135,626.48
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		256,275.18
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		170,850.12
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		128,137.59
J.	Total Unit Cost				28,030.10

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
502(4)a6 Concrete Cover

Item No./Description:
Unit of Measurement: each
Output per hour: 5.00
Quantity: 96.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.40	611.92	1,468.61
	b. Skilled Labor	2	2.40	443.20	2,127.36
	c. Unskilled Labor	4	2.40	342.24	3,285.50
Sub-total for A					P 6,881.47
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.20	1,376.00	1,651.20
	b. Bar Cutter, Single Phase	1	1.20	1,758.00	2,109.60
	c. Concrete vibrator	1	1.20	730.00	876.00
	b. Welding machine (300 A), Gas/Diesel Driven	1	0.60	2,968.00	1,780.80
	b. Water truck	1	0.60	19,600.00	11,760.00
	Minor Tools 10% of Labor				688.15
Sub-total for B					P 18,865.75
C.	Total (A+B)				25,747.22
D.	Output/day	40.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Dimension : 1.29m x 0.57m x 0.20m w/ flat bar frame				
	a. Cement	137.28	bag	280.00	38,438.40
	b. Sand	7.20	cu.m.	901.00	6,487.20
	c. Gravel	14.40	cu.m.	901.00	12,974.40
	d. Reinforcing steel bar	4,460.16	kg.	38.00	169,486.08
	e. #16 GI tie wire (2% to RSB)	89.28	kg.	80.00	7,142.40
	f. 6 mm thk angle bar	7,063.68	kg.	48.00	339,056.64
	g. 16mm thk steel plate	285.12	kg.	47.00	13,400.64
	h. 1/2" Ordinary Plywood - 2 uses	31.68	pc.	385.00	6,098.40
	i. 16mm dia. U-bolt and nut	192.00	set	250.00	48,000.00
	j. Welding rod (1 kg/2000 kg of steel)	3.84	kg.	167.00	641.28
Sub-total for E					P 641,725.44
F.	Direct Cost (C + E)				667,472.66
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		80,096.72
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		53,397.81
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		40,048.36
J.	Total Unit Cost				8,760.58

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
Zamboanga City, 1st LD
Item No./Description: 502(5) Metal Frames and Gratings
Unit of Measurement: pair
Output per hour: 1.00
Quantity: 96.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	12.00	611.92	7,343.04
	b. Skilled Labor	1	12.00	443.20	5,318.40
	c. Unskilled Labor	1	12.00	342.24	4,106.88
Sub-total for A				P	16,768.32
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor				1,676.83
Sub-total for B				P	1,676.83
C.	Total (A+B)				18,445.15
D.	Output/day	8.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. 410 mm x 660 mm x 60 mm, CI Cover with Frame	96.00	set	4,700.00	451,200.00
Sub-total for E				P	451,200.00
F.	Direct Cost (C + E)				469,645.15
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		56,357.42
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		37,571.61
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		28,178.71
J.	Total Unit Cost				6,164.09



DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Widening Primary Roads
Pagadian City-Zamboanga City Road
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: 236.00

White for centerline and edgeline

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.18	611.92	722.07
	b. Skilled Labor	2	1.18	443.20	1,045.95
	c. Unskilled Labor	6	1.18	342.24	2,423.06
Sub-total for A				P	4,191.08
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	1.18	6,264.00	7,391.52
	b. Applicator Machine	1	1.18	750.00	885.00
	c. Kneading Machine	1	1.18	1,500.00	1,770.00
	Minor Tools 10% of Labor				419.11
Sub-total for B				P	10,465.63
C.	Total (A+B)				14,656.70
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (White)	76.70	bag	1,585.00	121,569.50
	b. Glass Beads	7.79	bag	2,500.00	19,470.00
	c. Primer	28.32	L	160.00	4,531.20
	d. LPG (50 kg)	0.94	cyl.	3,450.00	3,256.80
	e. LPG (12 kg)	0.47	cyl.	828.00	390.82
	f. Calsumine	29.50	kg.	100.00	2,950.00
	Miscellaneous 5% of Materials Cost				7,608.42
Sub-total for E				P	159,776.73
F.	Direct Cost (C + E)				174,433.44
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		20,932.01
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		13,954.67
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		10,466.01
J.	Total Unit Cost				931.30

AR

PROJECT : Road Widening Primary Roads
: Pagadian City-Zamboanga City
LOCATION : Zamboanga City, 1st LD
LIMITS : Zamboanga City

1936+374.00 -
1936+765.00 -
1936+980.00 -
1937+020.00 -
1937+160.00 -
1937+180.00 -
1937+360.00 -
1937+400.00 -
1937+460.00 -
1937+511.00 -

net length : 1,037.00 m.m.

SUMMARY OF DETAILED ESTIMATES

ITEM NO.	DESCRIPTION	QTY.	UNIT	LABOR	EQUIPMENT	MATERIALS	OCM	PROFIT	VAT	TOTAL
PART A - FACILITIES FOR THE ENGINEER										
A.1(3)	Construction of Field Office for the Engineer	1.00	L.S.	42,596.48	32,115.65	297,987.97	44,724.01	29,816.01	22,362.01	469,602.12
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	-	-	282,506.67	-	22,600.53	15,255.36	320,362.56
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	5.67	month	71,794.40	-	130,605.00	-	-	10,119.97	212,519.37
	TOTAL OF PART A			114,390.88	32,115.65	711,099.64	44,724.01	52,416.54	47,737.34	1,002,484.05
PART B - OTHER GENERAL REQUIREMENTS										
B.4(1)	Construction Survey & Staking	1.04	km.	27,055.20	5,298.02	37,406.25	8,371.14	5,580.76	4,185.57	87,896.93
B.5	Project Billboard/Signboard	2.00	each	3,479.20	-	7,330.00	1,297.10	864.74	648.55	13,619.59
B.7	Occupation Safety and Health Program	5.67	month	127,357.20	60,000.00	26,760.00	-	17,129.38	11,562.33	242,808.90
B.9	Mobilization & Demobilization	1.00	L.S.	-	421,687.00	-	-	-	21,084.35	442,771.35
	TOTAL OF PART B			157,891.60	486,985.02	71,496.25	9,668.24	23,574.87	37,480.80	787,096.78
PART C - EARTHWORKS										
101(4)a6	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	7,278.36	200,196.67	-	24,897.00	16,598.00	12,448.50	261,418.54
101(4)c	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	7,278.36	191,393.47	-	23,840.62	15,893.75	11,920.31	250,326.51
102(2)	Surplus Common Excavation	4,767.00	cu.m.	9,656.15	480,639.03	-	58,835.42	39,223.61	29,417.71	617,771.93
103(3)	Foundation Fill	6,019.00	cu.m.	1,253,938.27	835,635.83	6,236,586.85	999,139.31	666,092.88	499,569.66	10,490,962.79
105(1)a	Subgrade Preparation	9,204.00	sq.m.	4,971.69	142,094.42	-	17,647.93	11,765.29	8,823.97	185,303.30
	TOTAL OF PART C			1,283,122.84	1,849,959.42	6,236,586.85	1,124,360.29	749,573.53	562,180.15	11,805,783.08
PART D - SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course	3,087.00	cu.m.	10,004.97	285,948.81	2,414,034.00	325,198.53	216,799.02	162,599.27	3,414,584.60
	TOTAL OF PART D			10,004.97	285,948.81	2,414,034.00	325,198.53	216,799.02	162,599.27	3,414,584.60
PART E - SURFACE COURSES										
31(1)e1	Portland Cement Concrete Pavement	11,458.00	sq.m.	161,697.29	2,398,643.13	13,879,216.33	1,972,746.81	1,315,164.54	986,373.40	20,713,841.50
	TOTAL OF PART E			161,697.29	2,398,643.13	13,879,216.33	1,972,746.81	1,315,164.54	986,373.40	20,713,841.50
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES										
404(1)a	Reinforcing Steel Bar, Grade 40	69,168.00	kg.	203,480.73	179,615.85	2,876,005.44	391,092.24	260,728.16	195,546.12	4,106,468.54
404(1)b	Reinforcing Steel Bar, Grade 60	5,241.00	kg.	15,418.15	13,609.86	228,926.88	30,954.59	20,636.39	15,477.29	325,023.16
405(1)a3	Structural Concrete, Class A	898.00	cu.m.	825,609.98	367,286.57	4,540,737.00	688,036.03	458,690.68	344,018.01	7,224,378.27
407(8)	Concrete Structures (Lean Concrete)	145.59	cu.m.	22,613.25	52,854.37	244,391.01	38,383.04	25,588.69	19,191.52	403,021.87
502(3)a6	Catch Basin	96.00	each	191,828.00	553,836.80	1,389,961.68	256,275.18	170,850.12	128,137.59	2,690,889.36
502(4)a6	Concrete Cover	96.00	each	6,881.47	18,865.75	641,725.44	80,096.72	53,397.81	40,048.36	841,015.55
502(5)	Metal Frames and Gratings	96.00	pdfr	16,768.32	1,676.83	451,200.00	56,357.42	37,571.61	28,178.71	591,752.89
	TOTAL OF PART G			1,282,599.89	1,187,746.02	10,372,947.45	1,541,195.20	1,027,463.47	770,597.60	16,182,549.64
PART H - MISCELLANEOUS STRUCTURES										
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	236.00	sq.m.	4,191.08	10,465.63	159,776.73	20,932.01	13,954.67	10,466.01	219,786.13
	TOTAL OF PART H			4,191.08	10,465.63	159,776.73	20,932.01	13,954.67	10,466.01	219,786.13
	TOTAL			3,013,898.54	6,251,863.68	33,845,157.26	5,038,828.10	3,398,946.65	2,577,434.56	54,126,125.78

MA

Name of Project	Road Widening Primary Roads		
	:	Pagadian City-Zamboanga City Road	
	:	Zamboanga City, 1st LD	
Station Limits	:	1936+374.00 -	1936+765.00
		0+000.00 -	0+000.00

Net Length : 1,037.00 In.m.

Item No.	Description	Quantity	Unit	DURATION # OF DAYS
PART A - FACILITIES FOR THE ENGINEER				
A.1.1(3)	Construction of Field Office for the Engineer	1.00	L.S.	8.00
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Engineer's Office	1.00	L.S.	170
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	5.67	month	170
PART B - OTHER GENERAL REQUIREMENTS				
B.4(1)	Construction Survey & Staking	1.04	km.	9.72
B.5	Project Billboard/Signboard	2.00	each	2.00
B.7	Occupation Safety and Health Program	5.67	month	170
B.9	Mobilization & Demobilization	1.00	L.S.	5.00
PART C - EARTHWORKS				
C.1(4)a6	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	5.61
C.1(4)c	Removal of Actual Structures/Obstruction	1,572.00	Ln.m	5.61
C.2(2)	Surplus Continon Excavation	4,767.00	c.u.m.	7.45
C.3(3)	Foundation Fill	6,019.00	c.u.m.	150.48
C.5(1)a	Subgrade Preparation	9,204.00	sq.m.	3.84
PART D - SUBBASE AND BASE COURSE				
D.200(1)	Aggregate Subbase Course	3,087.00	c.u.m.	7.72
PART E - SURFACE COURSES				
E.311(1)je1	Portland Cement Concrete Pavement	11,458.00	sq.m.	24.91
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES				
G.404(1)a	Reinforcing Steel Bar, Grade 40	69,168.00	kg.	48.03
G.404(1)b	Reinforcing Steel Bar, Grade 60	5,241.00	kg.	3.64
G.405(1)a3	Structural Concrete, Class A	898.00	c.u.m.	20.04
G.407(8)	Concrete Structures (Lean Concrete)	145.59	c.u.m.	13.00
G.502(3)a6	Catch Basin	96.00	each	26.00
G.502(4)a6	Concrete Cover	96.00	each	2.40
G.502(5)	Metal Frames and Gratings	96.00	pair	12.00
PART H - MISCELLANEOUS STRUCTURES				
H.612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	236.00	sq.m.	1.18

Prepared by:

MARK ANTHON P. REBOLLOS
Engineer II

Submitted by:

LEONCIO B. SOLAMILLO
Chief Construction Division

Chief Construction Division

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

Regional Director

UNIT COST ANALYSIS FOR HAULING COST FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (Bags)
Portland Cement Concrete Pavement	30,478.28
Structural Concrete, Class A	8,531.00
Concrete Structures (Lean Concrete)	1,383.11
Catch Basin	1,699.20
Concrete cover	137.28
Construction of Field Office for the Engineer	135.00
T O T A L	42,363.87

Quantity = **42,363.87** Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga City DEO	
Batching plant	

*Average hauling distance from Source to assumed Stockpiling area :
say 0.00 km.

Delivery Charge = P 0.120 x 0.00
= P **0.00** / bag

*Delivery Truck : 42,363.87 bags., (hauling works)
20,000.00 kgs., (capacity per haul)
or 500.00 bags, (capacity per haul)

*Capacity of Laborers unloading bags of Cement from Delivery Truck :
Assume (10) laborers can unload 500.00 bags of Cement.

*Dumptruck (10 Wheeler) days computation : **TIME-MOTION ANALYSIS**

Speed when loaded : 30.00 kph
Speed when unloaded : 40.00 kph
Loaded running = $\frac{0.00 \times 60}{30.00}$ = 0.00 mins.
Unloaded running = $\frac{0.00 \times 60}{40.00}$ = 0.00 mins.
Loading and Unloading : 45.00 mins.
allowance for delay/traffic : 3.00 mins.
Capacity of Dumptruck : 8.00 cu.m.
: 500.00 bags
Total Cycle time : 48.00 mins.
No. of trips for Dumptruck per day = $\frac{8.0 \times 60.00}{48.00}$ = 10.00 say 10.00 trip
Dumptruck daily output = 500 x 10.00 = 5,000.00 cu.m.
Using (3) Dumptrucks = 3 x 5,000.00 = 15,000.00 cu.m.

1. No. of days for Delivery Truck = $\frac{42,363.87}{15,000.00}$ = 2.82 say 2.82 days
2. No. of days for Labor, for unloading = complimentary to D. Truck days = 2.82 days

DELIVERY COST :

42,363.87 - Bags, Portland Cement @ P 0.00 / bag = P 0.00
Sub - Total P 0.00

LABOR :

1 - Foreman @ P 611.92 /day x 2.82 days = P 1,728.22
10 - Laborers, unloading @ P 342.24 /day x 2.82 days = P 9,665.74
Sub - Total P 11,393.96

MATERIALS :

42,363.87 - Bags, Portland Cement @ P 280.00 / bag = P 11,861,882.20
(Pick-Up Price) **Sub - Total P 11,861,882.20**

Estimated Quantity 42,363.87 Bags
Unit Cost P 280.27 / Bag, say P 280.00 / Bag
Grand Total P 11,873,276.16
Delivery Cost P 0.00
Labor P 11,393.96
Materials P 11,861,882.20

AK

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the Quarry to Batching plant

Item No. : ALL AGGREGATES Terrain : Flat to Rolling
 Quantity : 1,000.00 Unit : cu.m.
 Hauling Distance : 5.00 km.
 Effective Working Hours : 8.00 hrs.

Hauling: Using 10.00 cu.m.capacity Dumptruck

Weight of Dumptruck (cap. 10.00 cu.m.) : 16,000.00 kgs.
 Unit weight of Fine Aggregates : 1,640.00 kg/m³
 Unit weight of Coarse Aggregates : 1,534.00 kg/m³
 Maximum Volume to be Carried per DT : 11.57 cu.m.

*Dumptruck (10 Wheeler) days computation : TIME-MOTION ANALYSIS

Speed when loaded	:	30.00	kph	
Speed when unloaded	:	40.00	kph	
Loaded running	=	$\frac{5.00 \times 60}{30.00}$	=	10.00 mins.
Unloaded running	=	$\frac{5.00 \times 60}{40.00}$	=	7.50 mins.
Loading and Unloading	:	5.00	mins.	
allowance for delay/traffic	:	3.00	mins.	
Capacity of Dumptruck	:	10.00	cu.m.	
Total Cycle time	:	25.50	mins.	
No. of trips for Dumptruck per day	=	$\frac{8 \times 60.00}{25.50}$	=	18.82 say 18.82 trips
Dumptruck daily output	=	10 x 18.82	=	188.24 cu.m.
Using (5) Dumptrucks	=	5 x 188.24	=	941.18 cu.m.
1. No. of days for Dumptrucks	=	$\frac{1,000.00}{941.18}$	=	1.06 say 1.06 days

EQUIPMENT USED : (2009 ACEL RATES)

5	- Unit Dumptruck	@ P	11,360.00 /day	x	1.06 days	= P	60,350.00
					Sub - Total	P	60,350.00

Estimated Quantity		1,000.00	cu.m.
Unit Cost	P	12.07	/cu. m./km. (Unit Cost, Hauling per cu.m.per km.)
Grand Total	P	60,350.00	
Equipment	P	60,350.00	
Labor	P		
Materials	P		

	Hauling Distance	Unit Cost per cu.m./km.	Hauling Cost per cu.m.	Unit Price	Unit Cost per cu.m.
Cost of Fine Aggregates:	x	12.07	=	- + 901.00	= 901.00
Cost of Coarse Aggregates:	- x	12.07	=	- + 901.00	= 901.00
Cost of Item 200 Materials:	x	12.07	=	- + 680.00	= 680.00
Cost of Item 300 Materials:	x	12.07	=	- + 735.00	= 735.00
Cost of Boulders:	- x	12.07	=	- + 1,100.00	= 1,100.00
Cost of Embankment, Common Borrow:	x	12.07	=	- + 328.00	= 328.00

APR