

Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

NAME/LOCATION OF PROJECT :		Appropriation : P 150,000,000.00
Road Widening - Primary Roads Lanao - Pagadian - Zamboanga City Road		Source of Funds : CY-2018
PROJECT CATEGORY : NATIONAL ROAD		Released :
		Cal. Days to Complete : 207.00 Cal. Days
		Desirable Starting Date : Upon Approval
		Mode of Implementation :
PROJECT DESCRIPTION :	NET LENGTH :	
Scope of Work : Road Widening	K1758+296.00 - K1759+182.00	
Road Width : 6.70 m.	K1759+335.00 - K1760+071.00	
Roadbed Width : 12.00 m.	K1760+222.00 - K1763+300.00	
Subbase Course : 0.30 mtrs thick		
Surface Course : 0.15 mtrs thick		
Net Length : 9.40 lane km		
Net Length : 4,700.00 In.m. / 4,700 km		

MINIMUM EQUIPMENT REQUIREMENT : TECHNICAL PERSONNEL REQUIRED :

DESCRIPTION	NO.	DESCRIPTION	NO.
Dumptruck (10 Wheeler)	10	Water Pump	1
Bulldozer	2	Portable Screenshot	1
Backhoe	3	Concrete Vibrator	1
Road Grader	2	Concrete Cutter	1
Road Roller	2	Bar Cutter	1
Pay Loader	4	Bar Bender	1
Water Truck	2	Conc. Mixer (1-Bagger)	2
Water Tank	2	Plate Compactor	1
Transit Mixer	4		

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
101(2)a	Removal of Existing Electric Post	0.013	each	15.00	14,172.68	944.85
101(4)a1	Removal of Existing RPCP	0.004	each	12.50	4,600.00	368.00
101(3b2)	Removal of Existing PCCP	0.002	sq.m	17.00	2,062.12	121.30
101(2)b	Removal of Existing Headwall	0.001	each	2.00	723.51	361.76
101(8)	Removal of Existing Guardrails	0.053	In.m	2,160.50	59,049.81	27.33
101(9)	Removal of Existing Guardrails Post	0.014	each	565.00	15,442.33	27.33
101(10)	Removal of Existing Road Signs	0.001	each	4.00	1,472.00	368.00
102(2)	Surplus Common Excavation	0.847	cu.m.	5,201.50	942,908.85	181.28
103 (1)a	Structure Excavation	0.275	cu.m.	1,329.00	305,823.70	230.12
103(3)	Foundation Fill	0.007	cu.m.	8.50	7,509.73	883.50
103(6)a	Pipe Culvert and Drain Excavation	0.023	cu.m.	109.50	25,197.66	230.12
104(1)a1	Embankment from Roadway Excavation	7.042	cu.m.	33,856.00	7,840,515.69	231.58
105 (1)a	Subgrade Preparation	0.580	sq.m.	42,095.50	645,401.19	15.33
200 (1)	Aggregate Subbase Course	26.004	cu.m.	17,891.50	28,952,758.85	1,618.24
300 (1)	Aggregate Surface Course	1.815	cu.m.	1,547.50	2,020,928.22	1,305.93
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	48.019	sq.m.	31,860.50	53,463,846.63	1,678.06
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	4.017	sq.m	4,854.00	4,472,087.88	921.32
404 (1)a	Reinforcing Steel Bar, Grade 40	1.213	kg.	28,250.00	1,350,664.67	47.81
405 (1) a3	Structural Concrete, Class A	4.496	cu.m	673.00	5,006,343.04	7,438.85
500(1)a3	Pipe Culvert & Storm Drain	0.186	In.m	56.00	207,199.43	3,699.99
500 (1)b4	Pipe Culvert & Storm Drain	0.051	In.m	19.00	56,347.13	2,965.64
505(5)	Grouted Riprap, Class A	0.120	cu.m	33.00	134,039.08	4,061.79
506(1)	Stone Masonry	0.334	cu.m	89.00	371,608.67	4,175.38

607(1)	Reflective Pavement Studs, Flush Type	0.292	each	398.00	324,953.93	816.47
611(1)	Trees (Furnishing and Transplanting)	1.302	each	357.00	1,449,996.56	4,061.62
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.923	sq.m	1,410.50	1,027,992.57	728.81
500 (1)a1	RC Culvert Pipe, 610 mm	0.035	ln.m	18.00	38,634.68	2,146.37
502(3)e	Catch Basin	0.012	each	6.00	13,852.70	2,308.78
502(4)a	Concrete Cover	0.005	each	6.00	5,837.41	972.90
503 (1)	Metal Frame & Grating	0.006	set	6.00	7,189.17	1,198.20
600(3)	Concrete Curb and Gutter	0.102	ln.m	122.00	113,587.86	931.05
601	Sidewalk	0.133	sq.m.	244.00	147,750.04	605.53
605(2)z2	Regulatory Signs	0.013	units	2.00	14,567.60	7,283.80
A.1.1(3)	Const. of Field Office for the Engineer	0.367	LS	1.00	408,809.53	408,809.53
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	0.220	LS	1.00	244,863.32	244,863.32
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	0.292	L.S	1.00	325,128.00	325,128.00
B.5	Project Billboard	0.004	Unit	2.00	4,864.90	2,432.45
B.7	Occupational Safety & Health Program	0.150	L.S	1.00	167,436.12	167,436.12
B.9	Mobilization and Demobilization	0.873	L.S	1.00	972,312.00	972,312.00
B.4(1)	Construction Survey and Staking	0.154	Km.	4.70	171,110.30	36,406.45
TOTAL		100.000			P 111,339,589.55	

Name of Project

: Road Widening - Primary Roads Lanao - Pagadian - Zamboanga City Road

Station Limits

: K1758+296.00 - K1759+182.00 K1760+222.00 - K1763+300.00
K1876+377.00 - K1877+534.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1 Materials	58.07	87,105,177.39
A.2 Labor	1.41	2,119,384.10
A.3 Equipment Expenses	14.74	22,115,028.06
SUB-TOTAL (DIRECT COST)	74.23	111,339,589.55
B. INDIRECT COST (Per DO # 197 s. 2016)		
B.1 Overhead, Contingency & Misc. (10% Max. of D.C.)	7.31	10,962,985.01
B.2 Profit (8% Max. D.C.)	5.86	8,783,782.90
C. VAT (5% of D.C. and I.C. per D.O. # 197)	4.37	6,554,317.87
SUB-TOTAL (CONTRACT COST)	91.76	137,640,675.33
II. ESTIMATED GOVERNMENT EXPENDITURES		
1 Engineering and Administrative Overhead (3.5%)	3.50	5,250,000.00
2 Detailed Engineering (1%)	4.74	7,109,324.67
3 Reserved for the Payment of RROW)	0.00	
4 Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	150,000,000.00

Prepared by:


JERALD R. BARRERA
Engineer II

Submitted by:


LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval:


CAYAMOMBAO D. DIA
OIC-Assistant Regional Director

APPROVED:


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

APPROVED BUDGET

THE CONTRACT

Road Widening - Primary Roads Lanco - Pagadian - Zamboanga City Road

Project Name and Location

Station Limits : K1758+296.00 - K1759+182.00 K1759+335.00 - K1760+17.00 K1760+222.00 - K1761+300.00

Contract Duration : 207.00 Calendar Days

Length : 4,700.00 m.

Item No.	Description	Quantity	Unit	Estimated Direct Cost	OCM	PROFIT	%	VALUE	TOTAL MARK-UPS
----------	-------------	----------	------	-----------------------	-----	--------	---	-------	----------------

PART A FACILITIES FOR THE ENGINEER								
------------------------------------	--	--	--	--	--	--	--	--

A.1.1(13)	Const. of Field Office for the Engineer	1.00	LS	408,809.53	10.00	8.00	18.00	24,119.76	97,705.48
-----------	---	------	----	------------	-------	------	-------	-----------	-----------

A.1.1(11)	Prov. of Furniture, Equipment and Appliances for Field Engineer	1.00	LS	244,863.32	0.00	0.00	0.00	12,243.17	257,106.49
-----------	---	------	----	------------	------	------	------	-----------	------------

A.1.2(5)	Operation & Maintenance of Govt. Service Vehicle	1.00	LS	325,128.00	0.00	0.00	0.00	16,256.40	341,384.40
----------	--	------	----	------------	------	------	------	-----------	------------

TOTAL OF PART A								
-----------------	--	--	--	--	--	--	--	--

8.5	Project Billboard	2.00	Unit	4,864.90	10.00	8.00	18.00	287.03	1,162.71
-----	-------------------	------	------	----------	-------	------	-------	--------	----------

OTHER GENERAL REQUIREMENTS								
----------------------------	--	--	--	--	--	--	--	--

B.7	Occupational Safety & Health Program	1.00	LS	167,456.12	0.00	8.00	8.00	9,041.55	189,872.56
-----	--------------------------------------	------	----	------------	------	------	------	----------	------------

B.9	Mobilization and Demobilization	1.00	LS	972,312.00	0.00	0.00	0.00	48,615.60	1,020,927.60
-----	---------------------------------	------	----	------------	------	------	------	-----------	--------------

B.4(1)	Construction Survey and Staking	4.70	Km.	171,110.30	10.00	8.00	18.00	30,799.85	45,107.59
--------	---------------------------------	------	-----	------------	-------	------	-------	-----------	-----------

TOTAL OF PART B								
-----------------	--	--	--	--	--	--	--	--

101(2)a	Removal of Existing Electric Post	15.00	each	14,172.68	10.00	8.00	18.00	836.19	3,387.27
---------	-----------------------------------	-------	------	-----------	-------	------	-------	--------	----------

101(4a)	Removal of Existing RCPC	12.50	each	4,600.00	10.00	8.00	18.00	828.00	1,099.40
---------	--------------------------	-------	------	----------	-------	------	-------	--------	----------

101(3b2)	Removal of Existing Headwall	17.00	sqm	2,062.12	10.00	8.00	18.00	371.18	492.85
----------	------------------------------	-------	-----	----------	-------	------	-------	--------	--------

101(9)	Removal of Existing Road Signs	4.00	each	1,472.00	10.00	8.00	18.00	264.96	86.85
--------	--------------------------------	------	------	----------	-------	------	-------	--------	-------

102(2)	Surplus Common Excavation	5,201.50	cu.m.	942,908.85	10.00	8.00	18.00	169,723.59	55,631.62
--------	---------------------------	----------	-------	------------	-------	------	-------	------------	-----------

103(1)a	Structure Excavation	1,329.00	cu.m.	308,823.70	10.00	8.00	18.00	55,048.27	18,043.60
---------	----------------------	----------	-------	------------	-------	------	-------	-----------	-----------

103(3)	Foundation Fill	8.50	cu.m.	7,509.73	10.00	8.00	18.00	1,351.75	1,794.83
--------	-----------------	------	-------	----------	-------	------	-------	----------	----------

103(6)a	Pipe Culvert and Drain Excavation	109.50	cu.m.	25,197.66	10.00	8.00	18.00	4,555.58	6,022.24
---------	-----------------------------------	--------	-------	-----------	-------	------	-------	----------	----------

104(1)a	Embankment from Roadway Excavation	33,856.00	cu.m.	7,840,515.69	10.00	8.00	18.00	1,411,292.82	462,590.43
---------	------------------------------------	-----------	-------	--------------	-------	------	-------	--------------	------------

105(1)a	Subgrade Preparation	42,095.50	sq.m.	645,401.19	10.00	8.00	18.00	116,172.21	38,078.67
---------	----------------------	-----------	-------	------------	-------	------	-------	------------	-----------

TOTAL OF PART C								
-----------------	--	--	--	--	--	--	--	--

200(1)	Aggregate Subbase Course	17,891.50	cu.m.	28,952,758.85	10.00	8.00	18.00	5,211,496.59	1,708,212.77
--------	--------------------------	-----------	-------	---------------	-------	------	-------	--------------	--------------

300(1)	Aggregate Surface Course	1,547.50	cu.m.	2,020,928.22	10.00	8.00	18.00	363,767.08	119,234.77
--------	--------------------------	----------	-------	--------------	-------	------	-------	------------	------------

311(1)a	Portland Cement Concrete Pavement, 0.15m thick	31,860.50	sq.m.	53,463,846.63	10.00	8.00	18.00	9,623,492.39	3,154,366.95
---------	--	-----------	-------	---------------	-------	------	-------	--------------	--------------

311(1)e	Portland Cement Concrete Pavement, using Conventional Method, 0.20m thick	4,854.00	sq.m.	4,472,087.88	10.00	8.00	18.00	4,472,087.88	804,975.18
---------	---	----------	-------	--------------	-------	------	-------	--------------	------------

TOTAL OF PART D								
-----------------	--	--	--	--	--	--	--	--

405(1)a	Reinforcing Steel Bar, Grade 40	28,250.00	kg.	1,350,664.67	10.00	8.00	18.00	243,119.64	79,689.22
---------	---------------------------------	-----------	-----	--------------	-------	------	-------	------------	-----------

405(1)c	Structural Concrete, Class A	673.00	cu.m.	5,006,343.04	10.00	8.00	18.00	901,141.75	295,374.24
---------	------------------------------	--------	-------	--------------	-------	------	-------	------------	------------

TOTAL OF PART E								
-----------------	--	--	--	--	--	--	--	--

500(1)a	RC Culvert Pipe, 610 mm	18.00	ln.m.	38,634.68	10.00	8.00	18.00	6,954.24	2,279.45
---------	-------------------------	-------	-------	-----------	-------	------	-------	----------	----------

500(1)c	Catch Basin	6.00	each	13,852.40	10.00	8.00	18.00	2,493.49	817.31
---------	-------------	------	------	-----------	-------	------	-------	----------	--------

502(4)a	Concrete Cover	6.00	each	5,837.41	10.00	8.00	18.00	1,050.73	344.41
---------	----------------	------	------	----------	-------	------	-------	----------	--------

503(1)	Metal Frame & Grating	6.00	set	7,189.17	10.00	8.00	18.00	1,294.05	424.16
--------	-----------------------	------	-----	----------	-------	------	-------	----------	--------

500(1)b4	Pipe Culvert & Storm Drain	56.00	ln.m.	207,199.43	10.00	8.00	18.00	37,295.90	12,224.77
----------	----------------------------	-------	-------	------------	-------	------	-------	-----------	-----------

500(1)b4	Pipe Culvert & Storm Drain	19.00	ln.m.	56,347.13	10.00	8.00	18.00	10,142.48	3,324.48
----------	----------------------------	-------	-------	-----------	-------	------	-------	-----------	----------

505(5)	Grouted Riprap, Class A	33.00	cu.m.	134,039.08	10.00	8.00	18.00	24,127.03	7,908.31
--------	-------------------------	-------	-------	------------	-------	------	-------	-----------	----------

506(1)	Stone Masonry	89.00	cu.m.	371,608.67	10.00	8.00	18.00	66,889.56	21,924.91
--------	---------------	-------	-------	------------	-------	------	-------	-----------	-----------

TOTAL OF PART F								
-----------------	--	--	--	--	--	--	--	--

600(3)	Concrete Curb and Gutter	122.00	ln.m.	113,587.86	10.00	8.00	18.00	20,445.81	6,701.68
--------	--------------------------	--------	-------	------------	-------	------	-------	-----------	----------

601	Sidewalk	244.00	sq.m.	147,750.04	10.00	8.00	18.00	26,595.01	8,717.25
-----	----------	--------	-------	------------	-------	------	-------	-----------	----------

605(2)22	Regulatory Signs	2.00	units	14,561.40	10.00	8.00	18.00	2,622.17	859.49
----------	------------------	------	-------	-----------	-------	------	-------	----------	--------

607(1)	Relicive Pavement Studs, Flush Type	398.00	each	324,553.93	10.00	8.00	18.00	58,491.71	19,172.28
--------	-------------------------------------	--------	------	------------	-------	------	-------	-----------	-----------

611(1)	Trees (Funding and Transplanting)	357.00	each	1,449,994.56	10.00	8.00	18.00	260,499.38	85,549.80
--------	-----------------------------------	--------	------	--------------	-------	------	-------	------------	-----------

612(1)	Relocated Thermoplastic Pavement Markings (White)	1,410.50	sq.m.	1,027,992.57	10.00	8.00	18.00	185,038.66	60,651.56
--------	---	----------	-------	--------------	-------	------	-------	------------	-----------

TOTAL OF PART H								
-----------------	--	--	--	--	--	--	--	--

111,339,589.55									19,746,767.91
----------------	--	--	--	--	--	--	--	--	---------------

3,078,848.54									554,192.74
--------------	--	--	--	--	--	--	--	--	------------

181,652.06									4,846,105.10
------------	--	--	--	--	--	--	--	--	--------------

756,844.80									26,301,085.78
------------	--	--	--	--	--	--	--	--	---------------

3,814,693.34									137,640,675.33
--------------	--	--	--	--	--	--	--	--	----------------

1,273,682.79									903.00
--------------	--	--	--	--	--	--	--	--	--------

1,796,545.73									5,032.34
--------------	--	--	--	--	--	--	--	--	----------

402,617.91									1,011.60
------------	--	--	--	--	--	--	--	--	----------

77,663.99									9,024.63
-----------	--	--	--	--	--	--	--	--	----------

3,481.46									750.26
----------	--	--	--	--	--	--	--	--	--------

35,312.26									1,153.57
-----------	--	--	--	--	--	--	--	--	----------

27,147.50									
-----------	--	--	--	--	--	--	--	--	--

140,735.35									
------------	--	--	--	--	--	--	--	--	--

1,034,203.54									
--------------	--	--	--	--	--	--	--	--	--

460,423.14									5,173.29
------------	--	--	--	--	--	--	--	--	----------

166,074.42									5,032.56
------------	--	--	--	--	--	--	--	--	----------

32,035.34									3,674.43
-----------	--	--	--	--	--	--	--	--	----------

13,466.96									4,584.29
-----------	--	--	--	--	--	--	--	--	----------

256,720.10									1,484.56
------------	--	--	--	--	--	--	--	--	----------

8,907.38									1,205.42
----------	--	--	--	--	--	--	--	--	----------

7,232.55									2,860.58
----------	--	--	--	--	--	--	--	--	----------

3,310.80									2,659.35
----------	--	--	--	--	--	--	--	--	----------

817.31									
--------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

17,163.50									
-----------	--	--	--	--	--	--	--	--	--

7,232.55									
----------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

817.31									
--------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

17,163.50									
-----------	--	--	--	--	--	--	--	--	--

7,232.55									
----------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

817.31									
--------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

17,163.50									
-----------	--	--	--	--	--	--	--	--	--

7,232.55									
----------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

817.31									
--------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

17,163.50									
-----------	--	--	--	--	--	--	--	--	--

7,232.55									
----------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

817.31									
--------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

17,163.50									
-----------	--	--	--	--	--	--	--	--	--

7,232.55									
----------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

817.31									
--------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

17,163.50									
-----------	--	--	--	--	--	--	--	--	--

7,232.55									
----------	--	--	--	--	--	--	--	--	--

3,310.80									
----------	--	--	--	--	--	--	--	--	--

817.31									
--------	--	--	--	--	--	--	--	--	--

C

Name of Project	Location	Project Description	Project Status	Project Cost (USD)	Project Completion Date
Road Widening - Primary Roads	Lanao - Pagadian				
	Zamboanga City Road				

Item No.	Description	Quantity	Unit	Labor	Equipment	Materials	OCM	Profit	VAT	TOTAL
101(2)a	Removal of Existing Electric Post	15.00	each	3,261.75	9,710.93	1,200.00	1,417.27	1,133.81	836.19	17,559.94
101(4)a1	Removal of Existing RPC	12.50	each	337.60	4,262.40	-	460.00	368.00	227.40	5,699.40
101(3b2)	Removal of Existing FCBP	17.00	sqm	68.87	1,993.25	-	206.21	164.97	121.67	2,554.97
101(2)b	Removal of Existing Headwall	2.00	each	35.00	688.51	-	72.35	57.88	42.69	896.43
101(8)	Removal of Existing Guardrails	2,160.50	lm	3,501.09	55,548.72	-	5,904.98	4,723.99	3,483.94	73,162.72
101(9)	Removal of Existing Guardrails Post	565.00	each	915.58	14,526.74	-	1,544.23	1,235.39	911.10	19,133.04
101(10)	Removal of Existing Road Signs	4.00	each	108.03	1,363.97	-	147.20	117.76	86.85	1,823.81
102(2)	Surplus Common Excavation	5,201.50	cum.	17,757.05	925,151.79	-	94,290.88	75,432.71	55,631.62	1,168,264.06
103(1)a	Structure Excavation	1,329.00	cum.	13,610.95	292,212.75	-	30,582.37	24,465.90	18,043.60	378,915.56
103(3)	Foundation Fill	8.50	cum.	1,683.75	1,003.00	4,822.99	750.97	600.78	443.07	9,304.56
103(6)a	Pipe Culvert and Drain Excavation	109.50	cum.	1,121.44	24,076.22	-	2,519.77	2,015.81	1,486.66	31,219.91
104(1)a1	Embankment from Roadway Excavation	33,856.00	cum.	200,800.95	7,639,714.74	-	784,051.57	627,241.26	462,590.43	9,714,398.94
105(1)a	Subgrade Preparation	42,095.50	sqm.	22,738.59	622,662.60	-	64,540.12	51,632.10	38,078.67	799,652.07
200(1)	Aggregate Subbase Course	17,891.50	cum.	57,986.35	2,245,383.25	26,649,389.25	2,895,275.89	2,316,220.71	1,708,212.77	35,872,468.22
300(1)	Aggregate Surface Course	1,547.50	cum.	5,015.45	137,340.63	1,878,572.15	202,092.82	161,674.26	119,234.77	2,503,930.07
311(1)a1	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	31,860.50	sqm.	448,062.44	6,646,629.01	46,636,915.18	5,346,384.66	4,277,107.73	3,154,366.95	66,241,705.97
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	4,854.00	sqm.	36,697.83	569,673.87	3,865,716.17	447,208.79	357,767.03	263,853.18	5,540,916.88
404(1)a	Reinforcing Steel Bar, Grade 40	28,250.00	kg.	83,106.79	63,260.38	1,204,297.50	135,066.47	108,053.17	79,689.22	1,673,473.53
405(1)a3	Structural Concrete, Class A	673.00	cum.	578,861.72	287,807.73	4,139,673.59	500,634.30	400,507.44	295,374.24	6,202,859.03
500(1)a3	Pipe Culvert & Storm Drain	56.00	lm	20,070.96	48,487.10	138,641.38	20,719.94	16,575.95	12,224.77	256,720.10
500(1)b4	Pipe Culvert & Storm Drain	19.00	lm	6,809.79	11,089.18	38,448.16	5,634.71	4,507.77	3,324.48	69,814.09
505(5)	Grouted Riprap, Class A	33.00	cum.	13,779.59	31,111.78	88,947.70	13,403.91	10,723.13	7,908.31	166,074.42
506(1)	Stone Masonry	89.00	cum.	30,162.03	28,545.67	312,900.96	37,160.87	29,728.69	21,924.91	460,423.14
607(1)	Reflective Pavement Studs, Flush Type	398.00	each	8,152.23	40,446.41	276,355.28	32,495.39	25,996.31	19,172.28	402,617.91
61(1)	Trees (Furnishing and Transplanting)	357.00	each	77,629.65	1,273,327.97	99,038.94	144,999.66	115,999.72	85,549.80	1,796,545.73
612(1)	Reflectized Thermoplastic Pavement Markings (White)	1,410.50	sqm	25,048.79	84,249.17	918,694.62	102,799.26	82,239.41	60,651.56	1,273,682.79
500(1)a1	RC Culvert Pipe, 610 mm	18.00	lm	2,867.28	6,926.73	28,840.67	3,863.47	3,090.77	2,279.45	47,868.37
502(3)e	Catch Basin	6.00	each	6,354.36	1,469.44	6,028.91	1,385.27	1,108.22	817.31	17,163.50
502(4)a	Concrete Cover	6.00	each	2,118.12	628.81	3,090.48	583.74	466.99	344.41	7,232.55
503(1)	Metal Frame & Girding	6.00	set	1,304.70	2,476.47	3,408.00	718.92	575.13	424.16	8,907.38
600(3)	Concrete Curb and Gutter	122.00	lm	7,584.49	5,248.56	100,754.81	11,358.79	9,087.03	6,701.68	140,735.35
601	Sidewalk	244.00	sqm.	9,899.69	7,828.72	130,021.63	14,775.00	11,820.00	8,717.25	183,062.30
605(2)2	Regulatory Signs	2.00	units	434.90	451.97	13,680.73	1,456.76	859.49	18,049.25	18,049.25
A.1.1(3)	Cont. of Field Office for the Engineer	1.00	LS	53,245.60	31,804.56	323,759.37	40,880.95	32,704.76	24,119.76	506,515.01
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	1.00	LS	-	-	244,863.32	-	-	-	244,863.32
A.1.2(5)	Operation & Maintenance of Govt. Service Vehicle	1.00	LS	91,742.40	-	-	-	-	-	91,742.40
B.5	Project Billboard	2.00	Unit	434.90	-	4,430.00	486.49	389.19	287.03	6,027.61
B.7	Occupational Safety & Health Program	1.00	LS	155,076.12	-	12,360.00	-	13,394.89	9,041.55	189,872.56
B.9	Mobilization and Demobilization	1.00	LS	-	972,312.00	-	-	-	48,615.60	1,020,927.60
B.4(1)	Construction Survey and Staking	4.70	Km.	130,797.24	-	256,130.6	14,700.00	17,111.03	10,095.51	212,005.66
TOTAL				2,119,384.10	22,115,028.06	87,105,177.39	10,962,985.01	8,783,782.90	6,554,317.87	137,640,675.33

WEEKS (6 WORKING DAYS)																																																				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Submitted by:

Engineer II

Chier, Construction Division

Regional Director

APPROVED:

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 101(2)a Removal of Existing Electric Post

Unit of Measurement : each

Output per hour : 1.00

Quantity : 15.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.88	611.92	1,147.35
b. Skilled Laborer	1	1.88	443.20	831.00
c. Laborer	2	1.88	342.24	1,283.40
Sub-total for A				P 3,261.75
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	0.47	12,296.00	5,763.75
b. Dumptruck	1	0.32	11,360.00	3,621.00
Minor Tools (5% of Labor Cost)				326.18
Sub-total for B				P 9,710.93
Total (A+B)				P 12,972.68
D. Output/day	8.00	each /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Rope, 1" dia.	60.00	m	20.00	1,200.00
Sub-total for E				P 1,200.00
Direct Cost (C+E)				14,172.68
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				1,170.66

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO
 Item No./Description : 101(4)a1 Removal of Existing RCPC
 Unit of Measurement : each
 Output per hour : 6.00
 Quantity : 12.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.26	611.92	159.35
b. Laborer	2	0.26	342.24	178.25
Sub-total for A				P 337.60
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	0.26	12,296.00	3,202.08
b. Boom Truck	1	0.13	8,143.20	1,060.31
Sub-total for B				P 4,262.40
Total (A+B)				P 4,600.00
D. Output/day 48.00 each /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
Direct Cost (C+E)				4,600.00
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			460.00
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			368.00
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			271.40
J. Total Unit Cost				455.95

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening including Drainage and RROW Acquisition - Dipolog - Oroquieta National Road, Zamboanga del Norte 3rd DEO

Item No./Description : 101(3b2) Removal of Existing PCCP

Unit of Measurement : sq.m

Output per hour : 40.00

Quantity : 17.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.05	611.92	32.51
b. Laborer	2	0.05	342.24	36.36
Sub-total for A				68.87
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	0.05	12,296.00	653.23
b. Payloader	1	0.05	13,864.00	736.53
c. Dumptruck	1	0.05	11,360.00	603.50
Sub-total for B				1,993.25
Total (A+B)				2,062.12
D. Output/day	320.00	sq.m /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				0.00
Direct Cost (C+E)				2,062.12
Overhead, Contingencies and Miscellaneous				206.21
Contractor's Profit (CP)				164.97
Value Added Tax (VAT)				121.67
Total Unit Cost				150.29

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 101(2)b Removal of Existing Headwall

Unit of Measurement

: cu.m

Output per hour

: 10.00

Quantity

: 2.00 each

2.16

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.03	611.92	16.52
b. Laborer	2	0.03	342.24	18.48
Sub-total for A				35.00
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe w/ breaker	1	0.01	15,984.80	215.79
b. Backhoe	1	0.01	12,296.00	166.00
c. Dumptruck	1	0.03	11,360.00	306.72
Sub-total for B				688.51
Total (A+B)				723.51
D. Output/day	80.00 cu.m /day			
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				0.00
Direct Cost (C+E)				723.51
Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	72.35
Contractor's Profit (CP)			8% per D.O 197 s 2016	57.88
Value Added Tax (VAT)			5% per D.O 197 s 2016	42.69
Total Unit Cost				448.22

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 101(8) Removal of Existing Guardrails

Unit of Measurement : In.m

Output per hour : 100.00

Quantity : 2,160.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	2.70	611.92	1,652.57
b. Laborer	2	2.70	342.24	1,848.52
Sub-total for A				P 3,501.09
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	2.70	12,296.00	33,206.89
b. Boom Truck	1	2.70	8,143.20	21,991.73
Minor Tools (10% of Labor Cost)				350.11
Sub-total for B				P 55,548.72
Total (A+B)				P 59,049.81
D. Output/day 800.00 In.m /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
Direct Cost (C+E)				59,049.81
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			5,904.98
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			4,723.99
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			3,483.94
J. Total Unit Cost				33.86

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 101(9) Removal of Existing Guardrails Post

Unit of Measurement : each

Output per hour : 100.00

Quantity : 565.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.71	611.92	432.17
b. Laborer	2	0.71	342.24	483.41
Sub-total for A				P 915.58
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	0.71	12,296.00	8,684.05
b. Boom Truck	1	0.71	8,143.20	5,751.14
Minor Tools (10% of Labor Cost)				91.56
Sub-total for B				P 14,526.74
Total (A+B)				P 15,442.33
D. Output/day 800.00 each/day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
Direct Cost (C+E)				15,442.33
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	1,544.23
H. Contractor's Profit (CP)			8% per D.O 197 s 2016	1,235.39
I. Value Added Tax (VAT)			5% per D.O 197 s 2016	911.10
J. Total Unit Cost				33.86

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lando - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO
Item No./Description : 101(10) Removal of Existing Road Signs
Unit of Measurement : each
Output per hour : 6.00
Quantity : 4.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.08	611.92	50.99
b. Laborer	2	0.08	342.24	57.04
Sub-total for A				P 108.03
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	0.08	12,296.00	1,024.67
b. Boom Truck	1	0.04	8,143.20	339.30
Sub-total for B				P 1,363.97
Total (A+B)				P 1,472.00
D. Output/day 48.00 each/day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
Direct Cost (C+E)				1,472.00
Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	147.20
Contractor's Profit (CP)			8% per D.O 197 s 2016	117.76
Value Added Tax (VAT)			5% per D.O 197 s 2016	86.85
Total Unit Cost				455.95

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 500 (1)b4 Pipe Culvert & Storm Drain

Unit of Measurement

: In.m

Output per hour

: 1.00

Quantity

: 19.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	2.38	611.92	1,453.31
b. Skilled Laborer	2	2.38	443.20	2,105.20
c. Laborer	4	2.38	342.24	3,251.28
Sub-total for A				P 6,809.79
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B				
Equipment, (2014 ACEL Rates)				
a. Backhoe	1	0.78	12,296.00	9,636.99
b. Plate Compactor	1	0.78	984.00	771.21
Minor Tools (10% of Labor)				680.98
Sub-total for B				P 11,089.18
Total (A+B)				P 17,898.97
D. Output/day	8.00	In.m	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	23.60	bag	296.18	6,989.17
b. Sand	1.33	cu.m	1,295.60	1,723.15
c. RC Pipes (610 mm dia.)	19.00	pc	1,372.00	26,068.00
d. Sand Bedding	2.83	cu.m	1,295.60	3,667.84
Sub-total for E				P 38,448.16
Direct Cost (C+E)				56,347.13
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				3,324.48
				3,674.43

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 102(2) Surplus Common Excavation

Unit of Measurement

: cu.m.

Output per hour

: 60.00

Quantity

: 5,201.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	10.84	611.92	6,631.05
b. Laborer	3	10.84	342.24	11,126.01
Sub-total for A				P 17,757.05
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Bulldozer	1	10.84	27,032.00	292,931.14
b. Payloader	1	10.84	13,864.00	150,236.66
c. Payloader	1	8.13	13,864.00	112,677.49
d. Dumptruck	3	10.84	11,360.00	369,306.50
Sub-total for B				P 925,151.79
Total (A+B)				P 942,908.85
D. Output/day	480.00	cu.m /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
Direct Cost (C+E)				942,908.85
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			94,290.88
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			75,432.71
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			55,631.62
J. Total Unit Cost				224.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 103 (1)a Structure Excavation

Unit of Measurement

: cu.m.

Output per hour

: 20.00

Quantity

: 1,329.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	8.31	611.92	5,082.76
b. Laborers	3	8.31	342.24	8,528.19
Sub-total for A				P 13,610.95
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Dumptruck	2	8.31	11,360.00	188,718.00
b. Backhoe	1	8.31	12,296.00	102,133.65
Minor Tools (10% of Labor)				1,361.10
Sub-total for B				P 292,212.75
Total (A+B)				P 305,823.70
D. Output/day	160.00	cu.m /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
Sub-total for E				P 0.00
F. Direct Cost (C+E)				305,823.70
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		30,582.37
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		24,465.90
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		18,043.60
J. Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 103(3) Foundation Fill

Unit of Measurement

: cu.m.

Output per hour

: 1.25

Quantity

: 8.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.85	611.92	520.13
b. Laborer	4	0.85	342.24	1,163.62
Sub-total for A				P 1,683.75
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Plate Compactor	1	0.85	984.00	836.40
b. Water Truck	1	0.01	19,600.00	166.60
c. Minor Tools (10% of Labor)				
Sub-total for B				P 1,003.00
Total (A+B)				P 2,686.75
D. Output/day	10.00 cu.m. /day			
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Filling Materials	9.78	cu.m.	493.40	4,822.99
Sub-total for E				P 4,822.99
Direct Cost (C+E)				7,509.73
Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	750.97
Contractor's Profit (CP)			8% per D.O 197 s 2016	600.78
Value Added Tax (VAT)			5% per D.O 197 s 2016	443.07
Total Unit Cost				1,094.65

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 103(6)a Pipe Culvert and Drain Excavation

Unit of Measurement

: cu.m.

Output per hour

: 20.00

Quantity

: 109.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.68	611.92	418.78
b. Laborer	3	0.68	342.24	702.66
Sub-total for A				P 1,121.44
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Dumptruck	2	0.68	11,360.00	15,549.00
b. Backhoe	1	0.68	12,296.00	8,415.08
Minor Tools (10% of Labor)				112.14
Sub-total for B				P 24,076.22
Total (A+B)				P 25,197.66
D. Output/day	160.00 cu.m /day			
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a.				
Sub-total for E				P 0.00
Direct Cost (C+E)				25,197.66
Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	2,519.77
Contractor's Profit (CP)			8% per D.O 197 s 2016	2,015.81
Value Added Tax (VAT)			5% per D.O 197 s 2016	1,486.66
Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 104(1)a1 Embankment from Roadway Excavation

Unit of Measurement

: cu.m.

Output per hour

: 50.00

Quantity

: 33,856.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
For Excavation Work				
a. Construction Foreman	1	70.25	611.92	42,988.11
b. Laborer	2	70.25	342.24	48,085.54
Spreading & Compaction				
a. Construction Foreman	1	84.64	611.92	51,792.91
b. Laborer	2	84.64	342.24	57,934.39
Sub-total for A				P 200,800.95
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
For Excavation Work				
a. Bulldozer	1	70.25	27,032.00	1,899,030.44
b. Payloader	1	70.25	13,864.00	973,962.64
c. Dumptruck	2	70.25	11,360.00	1,596,107.26
Spreading and Compaction				
a. Road Grader	1	84.64	17,384.00	1,471,381.76
b. Road Roller	1	84.64	13,216.00	1,118,602.24
c. Water Truck	1	29.62	19,600.00	580,630.40
Sub-total for B				P 7,639,714.74
Total (A+B)				P 7,840,515.69
C. Output/day	400.00	cu.m.	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
Direct Cost (C+E)				7,840,515.69
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			784,051.57
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			627,241.26
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			462,590.43
J. Total Unit Cost				286.93

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 105 (1) a Subgrade Preparation

Unit of Measurement

: sq.m.

Output per hour

: 300.00

Quantity

: 42.095.50

Note: Provision for Turn-outs

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	17.54	611.92	10,732.95
b. Laborer	2	17.54	342.24	12,005.64
Sub-total for A				P 22,738.59
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Road Grader	1	17.54	17,384.00	304,911.74
b. Road Roller	1	17.54	13,216.00	231,805.89
c. Water Truck	1	4.38	19,600.00	85,944.98
Sub-total for B				P 622,662.60
Total (A+B)				P 645,401.19
D. Output/day	2,400.00 sq.m./day			
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a.				
Sub-total for E				P 0.00
Direct Cost (C+E)				645,401.19
Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	64,540.12
Contractor's Profit (CP)			8% per D.O 197 s 2016	51,632.10
Value Added Tax (VAT)			5% per D.O 197 s 2016	38,078.67
Total Unit Cost				19.00

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 200 (1) Aggregate Subbase Course

Unit of Measurement

: cu.m.

Output per hour

: 50.00

Quantity

: 17,891.50

Note: Provision for Turn-outs

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	44.73	611.92	27,370.42
b. Laborer	2	44.73	342.24	30,615.93
Sub-total for A				P 57,986.35
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Road Grader	1	44.73	17,384.00	777,564.59
b. Road Roller	1	44.73	13,216.00	591,135.16
c. Water Truck	1	44.73	19,600.00	876,683.50
Sub-total for B				P 2,245,383.25
Total (A+B)				P 2,303,369.60
D. Output/day	400.00	cu.m.	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Aggregate Subbase Course (w/ Shrinkage of 15%)	22,364.38	cu.m.	1,191.60	26,649,389.25
Sub-total for E				P 26,649,389.25
Direct Cost (C+E)				28,952,758.85
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			2,895,275.89
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			2,316,220.71
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			1,708,212.77
Total Unit Cost				2,005.00

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 300 (1) Aggregate Surface Course

Unit of Measurement

: cu.m.

Output per hour

: 50.00

Quantity

: 1,547.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	3.87	611.92	2,367.37
b. Laborer	2	3.87	342.24	2,648.08
Sub-total for A				P 5,015.45
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Road Grader	1	3.87	17,384.00	67,254.35
b. Road Roller	1	3.87	13,216.00	51,129.40
c. Water Truck	1	0.97	19,600.00	18,956.88
Sub-total for B				P 137,340.63
Total (A+B)				P 142,356.07
D. Output/day	400.00	cu.m.	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Aggregate Surface Course (w/ shrinkage of 15%)	1,779.63	cu.m.	1,055.60	1,878,572.15
Sub-total for E				P 1,878,572.15
Direct Cost (C+E)				2,020,928.22
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			202,092.82
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			161,674.26
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			119,234.77
J. Total Unit Cost				1,618.05

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 311111)ela Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick

Unit of Measurement

: sq.m.

Output per hour

: 57.70

Quantity

: 31,860.50

Note: Provision for Turn-outs

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	69.02	611.92	42,235.87
b. Skilled	4	69.02	443.20	122,361.99
c. Laborer	12	69.02	342.24	283,464.58
Sub-total for A				P 448,062.44
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Transit Mixer	4	69.02	10,544.00	2,911,066.83
b. Concrete Vibrator	2	69.02	730.00	100,771.95
c. Batching Plant	1	69.02	14,076.00	971,551.99
d. Pay Loader	1	69.02	13,864.00	956,919.35
e. Concrete Screeder	1	69.02	4,360.00	300,935.40
f. Water Truck	1	69.02	19,600.00	1,352,828.86
g. Concrete Saw	1	69.02	261.04	18,017.47
h. Bar Cutter	1	6.90	1,758.00	12,134.05
Minor Tools (5% of labor)				22,403.12
Sub-total for B				P 6,646,629.01
Total (A+B)				P 7,094,691.45
Output/day	461.60	sq.m.	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Reinforcing Steel Bar	15,930.25	kg	39.00	621,279.75
b. Curing Compound	9,239.55	lit	45.00	415,779.53
c. Asphalt Sealant	5,416.29	lit	75.00	406,221.38
d. Sand	4,906.52	cu.m	1,295.60	6,356,883.43
e. Gravel	8,920.94	cu.m	1,402.60	12,512,510.44
f. Cement	84,748.93	bag	296.18	25,100,627.43
g. Concrete Saw	4.78	pc	8,000.00	38,232.60
h. Pipe Sleeve, 2" dia.	248.51	l.m	133.00	33,052.08
i. Grease/Tar	248.51	lit	21.00	5,218.75
j. Steel Forms	14,655.83	lit	60.00	879,349.80
Sub-total for E				P 46,369,155.18
Direct Cost (C+E)				53,463,846.63
Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		5,346,384.66
Contractor's Profit (CP)		8% per D.O 197 s 2016		4,277,107.73
Value Added Tax (VAT)		5% per D.O 197 s 2016		3,154,366.95
Total Unit Cost				2,079.12

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 311(1)a Portland Cement Concrete Pavement, 0.15m. Thick

Unit of Measurement

: sq.m

Output per hour

: 107.33

Quantity

: 4,854.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	5.65	611.92	3,459.26
b. Skilled	4	5.65	443.20	10,021.86
c. Laborer	12	5.65	342.24	23,216.71
Sub-total for A				P 36,697.83
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACCEL Rates)				
a. Transit Mixer	4	5.65	10,544.00	238,426.24
b. Concrete Vibrator	2	5.65	730.00	8,253.56
c. Batching Plant	1	5.65	14,076.00	79,573.40
d. Pay Loader	1	5.65	13,864.00	78,374.94
e. Concrete Screeder	1	5.65	4,360.00	24,647.63
f. Water Truck	1	5.65	19,600.00	110,801.27
g. Concrete Saw	1	5.65	261.04	1,475.69
h. Bar Cutter	1	0.57	1,758.00	993.82
Minor Tools (5% of Labor)				27,127.33
Sub-total for B				P 569,673.87
Total (A+B)				P 606,371.70
Output/day	858.64	sq.m /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Reinforcing Steel Bar	1,601.82	kg	39.00	62,470.98
b. Curing Compound	1,407.66	lit	45.00	63,344.70
c. Asphalt Sealant	582.48	lit	75.00	43,686.00
d. Steel Form	2,232.84	l.m	40.00	89,313.60
e. Sand	400.46	cu.m	1,295.60	518,829.50
f. Gravel	728.10	cu.m	1,402.60	1,021,233.06
g. Cement	6,941.22	bag	296.18	2,055,825.10
h. Concrete Saw	0.73	pc	8,000.00	5,824.80
i. Pipe Sleeve, 1" dia.	37.86	l.m	133.00	5,035.54
j. Grease/Tar	7.28	lit	21.00	152.90
Sub-total for E				P 3,865,716.17
Direct Cost (C+E)				4,472,087.88
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				1,141.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 404 (1) a Reinforcing Steel Bar, Grade 40

Unit of Measurement

: kg.

Output per hour

: 180.00

Quantity

: 28,250.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	19.62	611.92	12,004.68
b. Skilled Laborer	2	19.62	443.20	17,389.44
c. Laborer	8	19.62	342.24	53,712.67
Sub-total for A				P 83,106.79
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2009 ACEL Rates)				
a. Bar Cutter	1	9.81	1,758.00	17,244.27
b. Bar Bender	1	9.81	2,812.00	27,582.99
c. Cargo Truck	1	2.94	6,264.00	18,433.13
Sub-total for B				P 63,260.38
Total (A+B)				P 146,367.17
D. Output/day	1,440.00 kg. /day			
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Tie Wire	593.25	kg	80.00	47,460.00
b. Reinforcing Steel Bar, Grade 40	29,662.50	kg	39.00	1,156,837.50
Sub-total for E				P 1,204,297.50
Direct Cost (C+E)				1,350,664.67
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 135,066.47
Contractor's Profit (CP)				8% per D.O 197 s 2016 108,053.17
Value Added Tax (VAT)				5% per D.O 197 s 2016 79,689.22
Total Unit Cost				59.24

gerald_0101

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 405 (1) a3 Structural Concrete, Class A

Unit of Measurement

: cu.m

Output per hour

: 1.40

Quantity

: 673.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	60.09	611.92	36,769.84
b. Skilled Laborer	4	60.09	443.20	106,526.29
c. Laborer	8	60.09	342.24	164,519.66
<i>Installation/Removal of Form Works</i>				
a. Skilled Laborer	4	60.09	443.20	106,526.29
b. Laborer	8	60.09	342.24	164,519.66
Sub-total for A				P 578,861.72
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. One Bagger Mixer	1	60.09	1,376.00	82,682.86
b. Concrete Vibrator	1	60.09	972.00	58,406.79
c. Water Truck	1	6.01	19,600.00	117,775.00
Minor Tools (5% of Labor)				28,943.09
Sub-total for B				P 287,807.73
Total (A+B)				P 866,669.45
C. Output/day	11.20	cu.m	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Form Lumber	11,777.50	bd.ft	40.00	471,100.00
b. Plywood	269.20	pc	1,345.00	362,074.00
c. Assorted CW Nails	471.10	kg.	70.00	32,977.00
d. Portland Cement	6,393.50	bag	296.18	1,893,603.39
e. Sand	336.50	cu.m	1,295.60	435,969.40
f. Gravel	673.00	cu.m	1,402.60	943,949.80
Sub-total for E				P 4,139,673.59
Direct Cost (C+E)				5,006,343.04
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 500,634.30
Contractor's Profit (CP)				8% per D.O 197 s 2016 400,507.44
Value Added Tax (VAT)				5% per D.O 197 s 2016 295,374.24
Total Unit Cost				9,216.73

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 500(1)ø3 Pipe Culvert & Storm Drain

Unit of Measurement

: In.m

Output per hour

: 1.00

Quantity

: 56.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	7.00	611.92	4,283.44
b. Skilled Laborer	2	7.00	443.20	6,204.80
c. Laborer	4	7.00	342.24	9,582.72
Sub-total for A				P 20,070.96
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	3.50	12,296.00	43,036.00
b. Plate Compactor	1	3.50	984.00	3,444.00
Minor Tools (10% of Labor)				2,007.10
Sub-total for B				P 48,487.10
Total (A+B)				P 68,558.06
Output/day	8.00	In.m	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	60.48	bag	296.18	17,912.74
b. Sand	3.42	cu.m	1,295.60	4,425.77
c. RC Pipes (910 mm dia.)	56.00	pc	1,911.00	107,016.00
d. Sand Bedding	7.17	cu.m	1,295.60	9,286.86
Sub-total for E				P 138,641.38
Direct Cost (C+E)				207,199.43
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 20,719.94
Contractor's Profit (CP)				8% per D.O 197 s 2016 16,575.95
Value Added Tax (VAT)				5% per D.O 197 s 2016 12,224.77
Total Unit Cost				4,584.29

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 505(5) Grouted Riprap, Class A

Unit of Measurement

: cu.m

Output per hour

: 1.25

Quantity

: 33.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	3.30	611.92	2,019.34
b. Skilled Laborer	2	3.30	443.20	2,925.12
c. Laborer	8	3.30	342.24	9,035.14
Sub-total for A				P 13,979.59
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. One Bagger Mixer	1	3.30	1,376.00	4,540.80
b. Water Truck	1	1.32	19,600.00	25,872.00
Minor Tools (5% of Labor)				698.98
Sub-total for B				P 31,111.78
Total (A+B)				P 45,091.37
D. Output/day 10.00 cu.m /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Cement	99.00	bag	296.18	29,321.46
b. Sand	8.25	cu.m	1,295.60	10,688.70
c. Gravel Fill	0.50	cu.m	1,402.60	694.29
d. Weep Holes (PVC), 2" dia.	9.90	ln.m	133.00	1,316.70
e. Filter Cloth	0.50	sq.m	160.00	79.20
f. Boulders	34.65	cu.m	1,326.60	45,966.69
Miscellaneous (1% of Materials)				880.67
Sub-total for E				P 88,947.70
Direct Cost (C+E)				134,039.08
G. Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 13,403.91
H. Contractor's Profit (CP)				8% per D.O 197 s 2016 10,723.13
I. Value Added Tax (VAT)				5% per D.O 197 s 2016 7,908.31
J. Total Unit Cost				5,032.56

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 506(1) Stone Masonry

Unit of Measurement : cu.m

Output per hour : 1.56

Quantity : 89.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	7.12	611.92	4,356.87
b. Skilled Laborer	2	7.12	443.20	6,311.17
c. Laborer	8	7.12	342.24	19,493.99
Sub-total for A				P 30,162.03
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B				
Equipment, (2014 ACEL Rates)				
a. One Bagger Mixer	1	7.12	1,376.00	9,797.12
b. Water Truck	1	0.36	19,600.00	6,977.60
c. Backhoe	1	0.71	12,296.00	8,754.75
Minor Tools (10% of Labor)				3,016.20
Sub-total for B				P 28,545.67
Total (A+B)				P 58,707.70
D. Output/day	12.50	cu.m	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Cement	489.50	bag	296.18	144,978.32
b. Sand	26.70	cu.m	1,295.60	34,592.52
c. Gravel Fill	1.78	cu.m	1,402.60	2,496.63
d. Weep Holes (PVC)	26.70	ln.m	133.00	3,551.10
e. Filter Cloth	1.34	sq.m	160.00	213.60
f. Boulders	93.45	cu.m	1,326.60	123,970.77
Miscellaneous (1% of Materials)				3,098.03
Sub-total for E				P 312,900.96
Direct Cost (C+E)				371,608.67
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				5,173.29

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 607(1) Reflective Pavement Studs, Flush Type

Unit of Measurement : each

Output per hour : 10.00

Quantity : 398.0

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	4.98	611.92	3,044.30
b. Laborer	3	4.98	342.24	5,107.93
Sub-total for A				P 8,152.23
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Diamond Drill	1	4.98	1,608.00	7,999.80
b. Cargo Truck	1	1.24	9,696.00	12,059.40
c. Air Compressor	1	4.98	4,016.00	19,979.60
Minor Tools (5% of Labor Cost)				407.61
Sub-total for B				P 40,446.41
Total (A+B)				P 48,598.65
D. Output/day	80.00 each/day			
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Reflective Stud Catcheye Flush Surface	398	pc	667.00	265,466.00
b. Concrete Epoxy A & B	4.776	ltr	2,280.00	10,889.28
Sub-total for E				P 276,355.28
Direct Cost (C+E)				324,953.93
Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	32,495.39
Contractor's Profit (CP)			8% per D.O 197 s 2016	25,996.31
Value Added Tax (VAT)			5% per D.O 197 s 2016	19,172.28
Total Unit Cost				1,011.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 611(1) Trees (Furnishing and Transplanting)

Unit of Measurement

: each

Output per hour

: 1.00

Quantity

: 357.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	44.63	611.92	27,306.93
b. Skilled Laborer	1	44.63	443.20	19,777.80
c. Laborer	2	44.63	342.24	30,544.92
Sub-total for A				P 77,629.65
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B				
Equipment, (2014 ACEL Rates)				
a. Cargo Truck	1	44.63	6,264.00	279,531.00
b. Backhoe	1	44.63	12,296.00	548,709.00
c. Water Truck	1	22.31	19,600.00	437,325.00
Minor Tools (10% of Labor)				7,762.97
Sub-total for B				P 1,273,327.97
Total (A+B)				P 1,350,957.62
D. Output/day	8.00	each	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Fertilizers	1,071.00	kg	27.00	28,917.00
b. Bamboo Pole	1,071.00	pc	10.00	10,710.00
c. Polyethylene	1,071.00	sq.m	40.00	42,840.00
d. Tie Wire	89.25	kg	61.68	5,504.94
e. Trees (Delivered at site)	357.00	each	31.00	11,067.00
Sub-total for E				P 99,038.94
Direct Cost (C+E)				1,449,996.56
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			144,999.66
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			115,999.72
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			85,549.80
J. Total Unit Cost				5,032.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 612(1) ReflectORIZED Thermoplastic Pavement Markings (White)

Unit of Measurement

: sq.m

Output per hour

: 25.00

Quantity

: 1,410.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	7.05	611.92	4,315.57
b. Skilled Laborer	2	7.05	443.20	6,251.34
c. Laborer	6	7.05	342.24	14,481.89
Sub-total for A				P 25,048.79
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B				
Equipment, (2014 ACEL Rates)				
a. Cargo Truck/Delivery Truck	1	7.05	9,696.00	68,381.04
b. Applicator Machine	1	7.05	750.00	5,289.38
c. Kneading Machine	1	7.05	1,500.00	10,578.75
Minor Tools (10% of labor)				
Sub-total for B				P 84,249.17
Total (A+B)				P 109,297.95
D. Output/day	200.00	sq.m	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Thermoplastic Paint (white)	458.41	bag	1,585.00	726,583.81
b. Glass Beads	46.55	bag	2,500.00	116,366.25
c. Primer	169.26	liter	180.00	30,466.80
d. LPG (50 kg.)	5.64	cyl	90.00	507.78
e. LPG (12 kg.)	2.82	cyl	50.00	141.05
f. Calsumine	176.31	kg	5.00	881.56
Miscellaneous (5% of Materials)				43,747.36
Sub-total for E				P 918,694.62
Direct Cost (C+E)				1,027,992.57
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				903.00

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 500 (1)ø1 RC Culvert Pipe, ø10 mm

Unit of Measurement

: In.m

Output per hour

: 2.25

Quantity

: 18.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.00	611.92	611.92
b. Skilled Laborer	2	1.00	443.20	886.40
c. Laborer	4	1.00	342.24	1,368.96
Sub-total for A				P 2,867.28
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Backhoe	1	0.50	12,296.00	6,148.00
b. Plate Compactor	1	0.50	984.00	492.00
Minor Tools (10% of Labor)				286.73
Sub-total for B				P 6,926.73
Total (A+B)				P 9,794.01
D. Output/day	18.00	In.m	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	13.93	bag	296.18	4,126.33
b. Sand	0.79	cu.m	1,295.60	1,026.12
c. RC Pipes (ø10 mm dia.)	18.00	pc	1,202.00	21,636.00
d. Sand Bedding	1.58	cu.m	1,295.60	2,052.23
Sub-total for E				P 28,840.67
Direct Cost (C+E)				38,634.68
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				2,659.35

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 502(3)e Catch Basin

Unit of Measurement : each

Output per hour : 1.00

Quantity : 6.00

(Note: for the Provision of turn-out)

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.50	611.92	917.88
b. Skilled Foreman	2	1.50	443.20	1,329.60
c. Laborer	8	1.50	342.24	4,106.88
Sub-total for A				P 6,354.36
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Concrete Mixer (1 bagger)	1	0.25	1,376.00	344.00
b. Water Truck	1	0.03	19,600.00	490.00
Minor Tools, 10% of labor				635.44
Sub-total for B				P 1,469.44
Total (A+B)				P 7,823.80
D. Output/day	4.00	each /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	4.00	bag	296.18	1,184.71
b. Fine Aggregates	0.25	cu.m	1,295.60	323.90
c. Course Aggregates	0.50	cu.m	1,402.60	701.30
d. Form Lumber	20.00	bd.ft	39.00	780.00
e. # 16 GI Tie Wire	1.50	kls	80.00	120.00
f. 14pc-10mm dia. Std. def. bars	51.80	kgs	55.00	2,849.00
g. CW Nails	1.00	kls	70.00	70.00
Sub-total for E				P 6,028.91
Direct Cost (C+E)				13,852.70
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 1,385.27
Contractor's Profit (CP)				8% per D.O 197 s 2016 1,108.22
Value Added Tax (VAT)				5% per D.O 197 s 2016 817.31
Total Unit Cost				2,860.58

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 502(4)a Concrete Cover

Unit of Measurement : each

Output per hour :

Quantity : 6.00

(Note: for the Provision of turn-out)

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.50	611.92	305.96
b. Skilled Foreman	2	0.50	443.20	443.20
c. Laborer	8	0.50	342.24	1,368.96
Sub-total for A				P 2,118.12
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment. (2014 ACCEL Rates)				
a. Concrete Mixer (1 Bagger)	1	0.13	1,376.00	172.00
b. Water Truck	1	0.01	19,600.00	245.00
c. Minor Tools, 10% of Laborer)				211.81
Sub-total for B				P 628.81
Total (A+B)				P 2,746.93
C. Output/day	0.00	each /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	1.00	bag	296.18	296.18
b. Fine Aggregates	0.25	cu.m	1,295.60	323.90
c. Coarse Aggregates	0.25	cu.m	1,402.60	350.65
d. Form Lumber	20.00	bd.ft	39.00	780.00
e. # 16 GI Tie Wire	1.00	kls	80.00	80.00
f. 1-pc-10mm dia. Std. def. bars	22.20	kgs	55.00	1,221.00
g. CW Nails	0.50	kls	70.00	35.00
h. Water	0.25	cu.m	15.00	3.75
Sub-total for E				P 3,090.48
Direct Cost (C+E)				5,837.41
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				1,205.42

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 503 (1) Metal Frame & Grating

Unit of Measurement

: set

Output per hour

:

Quantity

: 6.00

(Note: for the Provision of turn-out)

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.75	611.92	458.94
b. Skilled Foreman	1	0.75	443.20	332.40
c. Laborer	2	0.75	342.24	513.36
Sub-total for A				P 1,304.70
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACCEL Rates)				
a. Welding Machine Minor Tools, 10% of Laborer)	1	0.75	3,128.00	2,346.00 130.47
Sub-total for B				P 2,476.47
Total (A+B)				P 3,781.17
D. Output/day	0.00	set /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Angle Bar (75mm X 75mm x 9 mm)	1.00	pc	3,040.00	3,040.00
b. Flat Bar (25mm X 65 mm X 3 mm)	1.00	pc	170.00	170.00
c. Weldind Rod	1.50	kg	132.00	198.00
Sub-total for E				P 3,408.00
Direct Cost (C+E)				7,189.17
G. Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
H. Contractor's Profit (CP)				8% per D.O 197 s 2016
I. Value Added Tax (VAT)				5% per D.O 197 s 2016
J. Total Unit Cost				1,484.56

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 600(3) Concrete Curb and Gutter

Unit of Measurement

: In.m

Output per hour

: 10.30

Quantity

: 122.00

(Note: for the Provision of turn-out)

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.48	611.92	906.00
b. Skilled Foreman	4	1.48	443.20	2,624.78
c. Laborer	8	1.48	342.24	4,053.72
Sub-total for A				P 7,584.49
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACCEL Rates)				
a. Concrete Vibrator	1	1.48	730.00	1,080.83
b. Bagger Mixer	1	1.48	1,376.00	2,037.28
c. Water Truck	1	0.07	19,600.00	1,372.00
Minor Tools, 10% of Labor				758.45
Sub-total for B				P 5,248.56
Total (A+B)				P 12,833.05
D. Output/day	82.40	In.m /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	157.38	bag	296.18	46,612.23
b. Fine Aggregates	8.54	cu.m	1,295.60	11,064.42
c. Coarse Aggregates	17.08	cu.m	1,402.60	23,956.41
d. Marine Plywood	7.32	pcs	445.00	3,257.40
e. Form Lumber	349.84	bd.ft	39.00	13,643.76
f. CW Nails	3.50	kls	70.00	245.00
Miscellaneous (2% of Materials)				1,975.58
Sub-total for E				P 100,754.81
Direct Cost (C+E)				113,587.86
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				1,153.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : 601 Sidewalk

Unit of Measurement : sq.m.

Output per hour : 20.00

Quantity : 244.00

(Note: for the Provision of turn-out)

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.53	611.92	933.18
b. Skilled Foreman	4	1.53	443.20	2,703.52
c. Laborer	12	1.53	342.24	6,262.99
Sub-total for A				P 9,899.69
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Concrete Vibrator	1	1.53	730.00	1,113.25
b. Bagger Mixer	1	1.53	1,376.00	2,098.40
c. Water Truck	1	0.19	19,600.00	3,724.00
d. Concrete Saw	1	1.53	261.04	398.09
Minor Tools, 5% of Labor				494.98
Sub-total for B				P 7,828.72
Total (A+B)				P 17,728.41
C. Output/day	160.00	sq.m. /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Curing Compound	70.76	lit	45.00	3,184.20
b. Asphalt Sealant	29.28	lit	75.00	2,196.00
c. Forms	112.24	l.m	39.00	4,377.36
d. Sand	13.42	cu.m	1,295.60	17,386.95
e. Gravel	24.40	cu.m	1,402.60	34,223.44
f. Cement	231.80	bag	296.18	68,653.67
Sub-total for E				P 130,021.63
Direct Cost (C+E)				147,750.04
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 14,775.00
Contractor's Profit (CP)				8% per D.O 197 s 2016 11,820.00
Value Added Tax (VAT)				5% per D.O 197 s 2016 8,717.25
Total Unit Cost				750.26

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: 605(2)z2 Regulatory Signs

Unit of Measurement

: units

Output per hour

:

Quantity

: 2.00

(Note: for the Provision of turn-out)

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.25	611.92	152.98
b. Mason	1	0.25	443.20	110.80
c. Laborer	2	0.25	342.24	171.12
Sub-total for A				P 434.90
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Stake Truck Minor Tools, 10% of Labor	1	0.06	6,808.00	408.48 43.49
Sub-total for B				P 451.97
Total (A+B)				P 886.87
D. Output/day	0.00	units /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Informative Signs	2.00	set	3,000.00	6,000.00
b. Portland Cement	1.00	bags	296.18	296.18
c. Fine Aggregates	0.25	cu.m	1,295.60	323.90
d. Coarse Aggregates	0.25	cu.m	1,402.60	350.65
e. Highway Traffic Sign post with Dowel	2.00	each	3,355.00	6,710.00
Sub-total for E				P 13,680.73
Direct Cost (C+E)				14,567.60
G. Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 1,456.76
H. Contractor's Profit (CP)				8% per D.O 197 s 2016 1,165.41
I. Value Added Tax (VAT)				5% per D.O 197 s 2016 859.49
J. Total Unit Cost				9,024.63

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

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

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor	a. Construction Foreman	1	10.00	611.92	6,119.20
	b. Masons	3	10.00	443.20	13,296.00
	c. Carpenters	3	10.00	443.20	13,296.00
	d. Laborers	6	10.00	342.24	20,534.40
	Sub-total for A				53,245.60
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)	a. Bagger Mixer	1	5.00	1,376.00	6,880.00
	b. Water Truck	1	1.00	19,600.00	19,600.00
	Minor Tools (10% of Labor)				5,324.56
	Sub-total for B				31,804.56
	Total (A+B)				85,050.16
C.					
D. Output/day	0.00	LS	/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
I. Earthworks (Excavation, Embankment, Bedding)					
a. Gravel Bedding		3.50	cu.m	1,402.60	4,909.10
b. Selected Fill		10.00	cu.m	493.40	4,934.00
c. Soil Poisoning		2.50	lit	1,900.00	4,750.00
II. Concrete Works (Footling, Columns, Beams & Slab on Grade)					
a. Portland Cement		90.00	bag	296.18	26,655.87
b. Crushed Gravel		20.00	cu.m	1,402.60	28,052.00
c. Washed Sand		17.00	cu.m	1,295.60	22,025.20
III. Reinforcing Bars(Footing Columns, Beams, & Slabs on Grade)					
a. Deformed Round Bar, Grade 40		500.00	kg	40.00	20,000.00
b. No. 16 GI Tie Wire		20.00	kg	68.00	1,360.00
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	520.00	9,360.00
c. CWN, Assorted		5.00	kg	44.00	220.00
V. Masonry Works (masonry walls & plastering)					
a. CHB 6" thk		650.00	pc	18.00	11,700.00
b. Portland Cement		50.00	bag	296.18	14,808.82
c. Washed Sand		10.00	cu.m	1,295.60	12,956.00
d. 10mm dia. X 6m RSB		75.00	kg	43.00	3,225.00
e. No. 16 GI Tie Wire		2.50	kg	81.00	202.50
VI. Doors and Windows					
a. D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90mx2.1m		2.00	set	1,765.27	3,530.54
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					180,233.02
Sub-total for E				P	323,759.37
Sub-total for E					408,809.53
F. Direct Cost (C+E)					
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		
J. Total Unit Cost					506,515.01

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

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

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	16.00	611.92	
	b. Masons	3	16.00	443.20	
	c. Carpenters	3	16.00	443.20	
	d. Laborers	6	16.00	342.24	
Sub-total for A					0.00
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Bagger Mixer	1	5.00	1,376.00	
	b. Water Truck	1	1.00	19,600.00	
Minor Tools (10% of Labor)					
Sub-total for B					0.00
C.	Total (A+B)				0.00
D. Output/day 0.00 LS /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
VII Steel Works					
	a. 65 x 65 x 6mm. L	300.00	kg	48.00	14,400.00
	b. 50 x 50 x 6mm. L	200.00	kg	48.00	9,600.00
	c. 50 x 50 x 4mm. L	100.00	kg	48.00	4,800.00
	d. Purlins C- 150 x 50 x 3mm.	19.00	kg	45.00	855.00
	e. 16mm dia. Cross bracing	32.00	kg	50.00	1,600.00
	f. 16mm dia. Turn buckle	15.00	pc	123.00	1,845.00
	g. 12mm thk base plate	22.00	kg	45.00	990.00
	h. 10mm thk batten plate	15.00	kg	45.00	675.00
	i. 10mm dia. Sag rod	7.50	kg	50.00	375.00
	j. 20mm dia. X 350 mm anchor bolts	7.00	pc	60.00	420.00
	k. Welding Rod	12.50	kg	125.00	1,562.50
	l. Primer, Zinc Chromate	5.00	gal	531.00	2,655.00
VII 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"	500.00	pc	1.25	625.00
	e. Roof Sealant	2.00	lit	242.84	485.68
IX. Carpentry Works					
	a. Rough Lumber, sun dried tongue	350.00	bd.ft	37.00	12,950.00
	b. Plywood, ordinary 1/4" x 4' x 8'	30.00	pc	350.00	10,500.00
	c. Finishing Nails	5.00	kg	74.00	370.00
	d. Common Wire Nails	10.00	kg	74.00	740.00
	e. Wood Preservative Brown	5.00	lit	900.00	4,500.00
Sub-Total for E					95,316.18
Sub-total for E					95,316.18
F. Direct Cost (C+E)					
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		
J. Total Unit Cost					

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

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

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
X. Electrical Works				
a. 2 x 40w Fluorescent lighting fixtures	5.00	set	1,500.00	7,500.00
b. Porcelain Ceiling Outlet w/ female	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	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	76.00	1,520.00
h. 15mm dia. PVC Coupling	25.00	pc	27.00	675.00
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	101.49	202.98
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	28.00	196.00
t. panel board (side main w/ braches)	2.00	set	3,000.00	6,000.00
XI. Plumbing Works				
a. Water Closet (include, Fitting & Accessories)	1.00	set	7,631.94	7,631.94
b. Lavatory (include fitting & Accessories)	1.00	set	5,000.00	5,000.00
c. 1/2" GI Pipe S-40	2.00	pc	292.00	584.00
d. 1/2" Water Faucet	2.00	pc	165.00	330.00
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				48,210.17
Sub-total for E		P		48,210.17
F. Direct Cost (C+E)				
G. Overhead, Contingencies and Miscellaneous				
		10% per D.O 197 s 2016		
H. Contractor's Profit (CP)				
		8% per D.O 197 s 2016		
I. Value Added Tax (VAT)				
		5% per D.O 197 s 2016		
J. Total Unit Cost				

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : A.1.1(11) Prov. Of Furniture, Equipment and Appliances for Field Engineer

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A.				
Sub-total for A				P 0.00
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B				
Sub-total for B				P 0.00
Total (A+B)				P 0.00
D. Output/day	0.00	LS	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Office Equipment/Facilities & Supplies				
a. Office Table, Executive type w/ chair	2.00	unit	7,000.00	14,000.00
b. 1/2" wooden office table	2.00	each	2,830.00	5,660.00
c. Drawing Table	2.00	unit	5,000.00	10,000.00
d. Electric Desk Fan	3.00	unit	1,370.00	4,110.00
e. Folding Beds, Good Quality	3.00	each	2,700.00	8,100.00
f. 6" sleeping beds w/ pillows and blanket	3.00	each	5,000.00	15,000.00
g. Double burner gas stove (Gasul)	1.00	unit	3,700.00	3,700.00
h. 10 cups Rice Cooker	1.00	unit	2,500.00	2,500.00
i. Aluminum Cookware	1.00	set	3,500.00	3,500.00
j. Plate, Glass, Spoon and fork	1.00	dozen	2,000.00	2,000.00
k. 6 seater dining table	1.00	each	2,800.00	2,800.00
l. Monoblock Backrest chair	2.00	dozen	2,500.00	5,000.00
m. Plastic Pail & Basin	2.00	pc	500.00	1,000.00
n. White Board	3.00	Unit	7,000.00	21,000.00
o. Bond Paper (Long)	20.00	ream	300.00	6,000.00
p. Bond Paper (Short)	20.00	ream	270.00	5,400.00
q. Yellow Pad	6.00	pad	35.00	210.00
r. White Board Marker	10.00	pc	75.00	750.00
s. Sign Pen (assorted color)	2.00	dozen	650.00	1,300.00
t. Ballpen (assorted color)	4.00	box	180.00	720.00
u. Mechanical Pencil	4.00	unit	350.00	1,400.00
v. Pencil Lead, No. 5	1.00	box	145.00	145.00
w. Puncher	2.00	Unit	253.32	506.64
x. Staple Pad w/ wire	2.00	Unit	275.00	550.00
y. Cutter Blade	2.00	box	240.00	480.00
z. Scotch Tape	10.00	roll	45.00	450.00
aa Brown Envelop	7.00	dozen	125.00	875.00
bb Folder, Long	7.00	dozen	85.00	595.00
cc Folder, Short	7.00	dozen	70.00	490.00
dd Data File Folder	12.00	pc	85.00	1,020.00
ee Desktop w/ complete accessories	1.00	unit	60,000.00	60,000.00
ff Printer (3in1)	1.00	unit	20,000.00	20,000.00
gg Camera	2.00	unit	15,000.00	30,000.00
Lighting/Water Fixtures				
a. Electric Bill	4.60	mons	1,200.00	5,520.00
b. Water Bill	4.60	mons	1,000.00	4,600.00
c. LPG Gasul (11 kg)	4.60	mons	1,000.00	4,600.00
Sub-Total for E				244,863.32
Sub-total for E				P 244,863.32
Direct Cost (C+E)				244,863.32
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	12,243.17
J. Total Unit Cost				257,106.49

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description : A.1.2(5) Operation & Maintenance of Gov't. Service Vehicle

Unit of Measurement : L.S

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Service Driver	1	207.00	443.20	91,742.40
Sub-total for A				
		P		91,742.40
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
Sub-total for B				
		P		0.00
C. Total (A+B)		P		91,742.40
D. Output/day	0.00	L.S	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Liters, Diesel Fuel	2,070.00	liters	35.00	72,450.00
b. Engine Oil & Lubricants	1.00	ls	22,935.60	22,935.60
c. Tires	4.00	pcs	9,500.00	38,000.00
d. Spare parts etc.	1.00	ls	100,000.00	100,000.00
Sub-total for E				
		P		233,385.60
F. Direct Cost (C+E)				325,128.00
G. Overhead, Contingencies and Miscellaneous	0%	per D.O 197 s 2016		0.00
H. Contractor's Profit (CP)	0%	per D.O 197 s 2016		0.00
I. Value Added Tax (VAT)	5%	per D.O 197 s 2016		16,256.40
J. Total Unit Cost				341,384.40

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: B.5 Project Billboard

Unit of Measurement

: Unit

Output per hour

:

Quantity

: 2.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.25	611.92	152.98
b. Carpenters	1	0.25	443.20	110.80
c. Laborer	2	0.25	342.24	171.12
Sub-total for A				P 434.90
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment. (2014 ACCEL Rates)				
Sub-total for B				P 0.00
Total (A+B)				P 434.90
D. Output/day	0.00	Unit /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Marine Plywood 3/16" thk. X 4' x 8'	2.00	pc	445.00	890.00
b. Tarpaulin (4' x 8')	2.00	pc	800.00	1,600.00
c. Assorted Sizes Lumber	100.00	bd. Ft	18.00	1,800.00
d. Assorted Sizes CW Nails	2.00	kg	70.00	140.00
Sub-total for E				P 4,430.00
Direct Cost (C+E)				4,864.90
Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016
Contractor's Profit (CP)				8% per D.O 197 s 2016
Value Added Tax (VAT)				5% per D.O 197 s 2016
Total Unit Cost				3,013.81

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

Item No./Description

: B.7 Occupational Safety & Health Program

Unit of Measurement

: L.S

Output per hour

:

Quantity

: 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Safety Practitioner	1	103.50	611.92	63,333.72
b. First Aider	1	207.00	443.20	91,742.40
Sub-total for A				P 155,076.12
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
Sub-total for B				P 0.00
Total (A+B)				P 155,076.12
D. Output/day	0.00	L.S	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Pairs, Rubber Boots Men, Long with Steel Toe, Black	24.00	pair	400.00	9,600.00
b. Pairs, Working Gloves (Maang Materials)	24.00	pair	15.00	360.00
c. Pcs. Rain Coats (Rain Forced, Hip Length Small, Medium & Large)	24.00	pcs	100.00	2,400.00
Sub-total for E				P 12,360.00
Direct Cost (C+E)				167,436.12
G. Overhead, Contingencies and Miscellaneous				per D.O 197 s 2016 0.00
H. Contractor's Profit (CP)				8% per D.O 197 s 2016 13,394.89
I. Value Added Tax (VAT)				5% per D.O 197 s 2016 9,041.55
J. Total Unit Cost				189,872.56

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

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

Unit of Measurement : L.S

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
Sub-total for A				
		P		0.00
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACCEL Rates)				
a. Low Bed Trailer	2	4.00	34,043.00	272,344.00
b. Water Truck	1	4.00	19,600.00	78,400.00
c. Backhoe	2	4.00	12,296.00	98,368.00
d. Payloader	2	4.00	13,864.00	110,912.00
e. Dumptruck	4	4.00	11,360.00	181,760.00
f. Bullduzer	1	4.00	27,032.00	108,128.00
g. Road Roller	1	4.00	13,216.00	52,864.00
h. Road Grader	1	4.00	17,384.00	69,536.00
Sub-total for B				
		P		972,312.00
Total (A+B)				
		P		972,312.00
D. Output/day	0.00	L.S /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				
		P		0.00
Sub-total for E				
		P		972,312.00
F. Direct Cost (C+E)				
G. Overhead, Contingencies and Miscellaneous		per D.O 197 s 2016		0.00
H. Contractor's Profit (CP)		per D.O 197 s 2016		0.00
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		48,615.60
J. Total Unit Cost				1,020,927.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Lanao - Pagadian - Zamboanga City Road, Zamboanga Sibugay 2nd DEO

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

Unit of Measurement : Km.

Output per hour : 0.04

Quantity : 4.70

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor (For Field Works)				
a. Geodetic Engineer	1	15.67	833.31	13,055.19
b. Skilled Laborer	3	15.67	443.20	20,830.40
c. Laborer	3	15.67	342.24	16,085.28
(For Office Works)				
a. Geodetic Engineer	1	47.00	833.31	39,165.57
b. Skilled Laborer	2	47.00	443.20	41,660.80
Sub-total for A				P 130,797.24
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Total Station w/ complete accessories Minor Tools (10% of labor)	1	15.67	800.00	12,533.33
				13,079.72
Sub-total for B				P 25,613.06
Total (A+B)				P 156,410.30
D. Output/day	0.30	Km.	/day	
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Standard Stake Plan (800 mm x 910 mm)	35.00	pcs	200.00	7,000.00
b. Blue Printing	175.00	pcs	40.00	7,000.00
Miscellaneous (5% of Materials)				700.00
Sub-total for E				P 14,700.00
Direct Cost (C+E)				171,110.30
G. Overhead, Contingencies and Miscellaneous	10% per D.O 197 s 2016			17,111.03
H. Contractor's Profit (CP)	8% per D.O 197 s 2016			13,688.82
I. Value Added Tax (VAT)	5% per D.O 197 s 2016			10,095.51
Total Unit Cost				45,107.59

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the District Office to Site

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 Aggrgates	: 1,640.00	kg/cu.m.
	Unit Weight of Course Aggrgates	: 1,534.00	kg/cu.m.

Maximum Volumeto 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	= $\frac{5.00 \times 60.00}{30.00}$	= 10 mins.
Unloaded Running	= $\frac{5.00 \times 60.00}{40.00}$	= 7.5 mins.

Loading & Unloading	= 5.00	mins.
Capacity of Dumptruck	= 10.00	cu.m.
Total Cycle Time	= 22.50	mins.

No. of trips for Dumptruck per day = $\frac{8.00 \times 60.00}{22.50}$ = 21.33 trips

Dumptruck Daily Outpout Using 4 Dumptruck = 10.00 X 21.33 = 213.33 cu.m.
= 213.33 X 4.00 = 853.33 cu.m.

No. of Days for Dumptruck = $\frac{1,000.00}{853.33}$ = 1.17 days

EQUIPMENT USED: (2009 ACEL RATES)

4.00 - Unit Dumptruck @ P 10,816.00 / day X 1.17 days = P 50,700.00
Sub-Total P 50,700.00

Estimated Quantity	= 1,000.00	cu.m.
Unit Cost	P 10.14	/cu.m/km. (unit cost hauling per cu.m. per km.)
Grand Total	P 50,700.00	
Equipment	P 50,700.00	
Labor	P	
Equipment	P	

ZAMBOANGA SIBUGAY 2ND DEO (using 2nd Quarter 2017)

	Hauling Distance	Unit Cost per cu.m/km	Hauling Cost per km.	Unit Price	Unit cost per cu.m.
Cost of Fine Aggregates	40.00	X 10.14	= 405.60	+ 890.00	= 1,295.60
Cost of Coarse Aggregates	40.00	X 10.14	= 405.60	+ 997.00	= 1,402.60
Cost of Item 200 Materials	40.00	X 10.14	= 405.60	+ 786.00	= 1,191.60
Cost of Item 201 Materials	40.00	X 10.14	= 405.60	+ 690.00	= 1,095.60
Cost of Item 300 Materials	40.00	X 10.14	= 405.60	+ 650.00	= 1,055.60
Cost of Boulders	40.00	X 10.14	= 405.60	+ 921.00	= 1,326.60
Cost of Embankment, Common Borrow	10.00	X 10.14	= 101.40	+ 272.00	= 373.40
Cost of Embankment, Selected Borrow	10.00	X 10.14	= 101.40	+ 392.00	= 493.40

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

Description	Quantity (Bags)
Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	84,748.93
Portland Cement Concrete Pavement, 0.15m. Thick	6,941.22
Structural Concrete, Class A	6,393.50
Grouted Riprap, Class A	99.00
Stone Masonry	489.50
Const. of Field Office for the Engineer	90.00
	50.00
Concrete Structure (Lean Concrete)	-
TOTAL	98,812.15

Quantity = 98,812.15 Bags

Delivery Charge = P 0.12 /bag/km

SITE	HAULING DISTANCE
Zamboanga Sibugay 2nd DEO	45.00
PROJECT SITE	

* Average Hauling Distance from source to assumed stockpiling area:
say 45.00 km.

Delivery Charge = P 0.12 X 45.00
Delivery Charge = P 5.40 /bag

* Delivery Truck : 98,812.15 bags (hauling works)
20,000.00 kgs., (capacity per haul)
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 = $\frac{45.00 \times 60.00}{30.00}$ = 90 mins.

Unloading Running = $\frac{45.00 \times 60.00}{40.00}$ = 67.5 mins.

Loading & Unloading = 45.00 mins.

Capacity of Dumptruck = 8.00 cu.m.

500.00 bags

Total Cycle Time = 202.50 mins.

No. of trips for Dumptruck per day = $\frac{8.00}{202.50} \times \frac{60.00}{2.37}$ = 2.37 trips

Dumptruck Daily Outpout = 500.00 X 2.37 = 1,185.19 cu.m.
Using 4 Dumptruck = 1,185.19 X 4.00 = 4,740.74 cu.m.

No. of Days for Dumptruck = $\frac{98,812.15}{4,740.74}$ = 20.84 days

No. of Days for Labor for unloading = complimentary to D.Truck days = 20.84 days

DELIVERY COST:

98,812.15 Bags, Portland Cement @ P 5.40 /bag = P 533,585.61
Sub-total 533,585.61

LABOR:

1 Foreman @ P 558.00 /day X 20.84 days = P 11,630.50
10 Laborers @ P 312.24 /day X 20.84 days = 65,080.77
Sub-total 76,711.27

MATERIALS:

98,812.15 Bags, Portland Cement @ P 290.00 /bag = P 28,655,523.50
Sub-total 28,655,523.50

Estimated Quantity : 98,812.15 Bags

Unit Cost P 296.18
Grand Total P 29,265,820.38
Delivery Cost P 533,585.61
Labor P 76,711.27
Materials P 28,655,523.50