

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 : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road		Appropriation : P 115,000,000.00
		Source of Funds : CY-2018
		Issued Obligated Authority :
		Released :
		Cal. Days to Complete : 250.00 Cal. Days
PROJECT CATEGORY : NATIONAL ROAD		Desirable Starting Date : Upon Approval
		Mode of Implementation :
PROJECT DESCRIPTION : Scope of Work : Rehabilitation/Reconstruction of Roads with slips, slope collapse and Landslide		NET LENGTH : Section 1: k1723+380.00 - k1723+520.00 Section 2: k1724+000.00 - k1724+120.00 Section 3: k1724+300.00 - k1725+000.00 Section 4: k1725+880.00 - k1725+980.00 Section 5: k1726+700.00 - k1726+960.00 Net Length : 1,320.00 ln.m Net Length : 6,959.80 sq.m

MINIMUM EQUIPMENT REQUIREMENT :			TECHNICAL PERSONNEL REQUIRED :		
DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.
Dumptruck (10 Wheeler)	10	Water Pump	1	Project Engineer	1
Bulldozer	2	Portable Screed	1	Materials Engineer	1
Backhoe	3	Concrete Vibrator	2	Geometric Control	1
Road Grader	2	Concrete Cutter	2	Foreman	1
Road Roller	2	Bar Cutter	1	Materials Lab. Tech	1
Pay Loader	4	Bar Bender	1	Mason	10
Water Truck	2	Conc. Mixer (1-Bagger)	2	Carpenter	6
Water Tank	2	Plate Compactor	1	Laborers (Skilled)	10
Transit Mixer	4			Laborers (Unskilled)	20

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
102(2)	Surplus Common Excavation	1.527	cu.m.	8,171.50	1,363,289.48	166.83
103 (1)	Structure Excavation	0.745	cu.m.	2,890.50	665,149.29	230.12
104(1)a1	Embankment from Roadway Excavation	0.302	cu.m.	2,380.50	269,810.90	113.34
404(1)a	Reinforcing Steel Bar, Grade 40	0.407	kg.	7,608.00	363,747.14	47.81
404 (1)b	Reinforcing Steel Bar, Grade 60	6.818	kg.	121,979.00	6,088,110.81	49.91
405 (1) a3	Structural Concrete, Class A	10.683	cu.m	1,375.50	9,538,937.15	6,934.89
407(8)	Concrete Structure (Lean Concrete)	0.637	cu.m	70.00	568,880.53	8,126.86
505(1a)	Grouted Riprap, Class A	1.480	cu.m	427.00	1,321,979.68	3,095.97
522A(1)	Active Protection System	75.213	sq.m	4,979.20	67,161,491.40	13,488.41
A.1.1(3)	Const. of Field Office for the Engineer	0.445	LS	1.00	397,602.55	397,602.55
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	0.273	LS	1.00	243,650.75	243,650.75
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	0.337	LS	1.00	300,720.00	300,720.00
B.5	Project Billboard	0.005	Unit	2.00	4,530.90	2,265.45
B.7	Occupational Safety & Health Program	0.165	LS	1.00	147,208.80	147,208.80
B.9	Mobilization and Demobilization	0.897	LS	1.00	800,970.00	800,970.00
B.4(1)	Construction Survey and Staking	0.066	Km.	1.32	58,628.00	44,415.15
TOTAL		100.000			P 89,294,707.39	

Name of Project : Rehabilitation/Reconstruction of Roads with slips, slope collapse and lanslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

Station Limits : k1723+380.00 - k1723+520.00 k1725+880.00 - k1725+980.00
k1724+000.00 - k1724+120.00 k1726+700.00 - k1726+960.00
k1724+300.00 - k1725+000.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1 Materials	61.29	70,483,232.95
A.2 Labor	4.94	5,678,437.21
A.3 Equipment Expenses	11.42	13,133,037.24
SUB-TOTAL (DIRECT COST)	77.65	P 89,294,707.39
B. INDIRECT COST (Per DO # 197 s. 2016)		
B.1 Overhead, Contingency & Misc. (8% Max. of D.C.)	7.63	8,780,215.78
B.2 Profit (8% Max. D.C.)	6.12	7,035,949.33
C. VAT (5% of D.C. and I.C. per D.O. # 197)	4.57	5,255,543.63
SUB-TOTAL (CONTRACT COST)	95.97	P 110,366,416.14
II. ESTIMATED GOVERNMENT EXPENDITURES		
1 Engineering and Administrative Overhead (3.5%)	3.50	4,025,000.00
2 Detailed Engineering (1%)		
3 Reserved for the Payment of RROW)	0.53	608,583.86
4 Physical Reserved	0.00	
TOTAL ESTIMATED PROJECT COST	100.00	P 115,000,000.00

Prepared by:


JERALD R. BARRERA
Engineer II

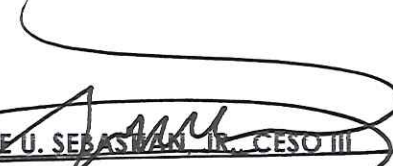
Submitted by:


LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval:


CAYAMOMBAO D. DIA
Assistant Regional Director

APPROVED:


JORGE U. SEBASTIAN JR., CESO III
Regional Director

APPROVED BUDGET FOR THE CONTRACT

Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

Project Name and Location										Contract Duration : 250.00 Calendar Days		
Station Limits : k1723+350.00 - k1723+520.00										k1724+300.00 - k1724+120.00		
Length : 6,959.80 sq.m										k1725+880.00 - k1725+980.00		
Item No.	Description	Quantity	Unit	Estimated Direct Cost	MARK-UP IN PERCENT OCM	PROFIT	%	TOTAL MARK-UPS VALUE	VAT	TOTAL INDIRECT COST	TOTAL COST	TOTAL COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) = (5)(8)	(10) = [(5)+(9)]*5%	(11) = (9) + (10)	(12) = (5) + (11)	(13) = (12) / (3)
FACILITIES FOR THE ENGINEER												
A.1.1(3)	Const. of Field Office for the Engineer	1.00	LS	397,602.55	10.00	8.00	18.00	71,568.46	23,458.55	95,027.01	492,629.56	492,629.56
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	1.00	LS	243,650.75	0.00	0.00	0.00	-	12,182.54	12,182.54	255,833.29	255,833.29
A.1.2(5)	Operation & Maintenance of Gov't Service Vehicle	1.00	L.S	300,720.00	0.00	0.00	0.00	-	15,036.00	15,036.00	315,756.00	315,756.00
TOTAL OF PART A												
OTHER GENERAL REQUIREMENTS												
B.5	Project Billboard	2.00	Unit	4,530.90	10.00	8.00	18.00	815.56	267.32	1,082.89	5,613.79	2,806.89
B.7	Occupational Safety & Health Program	1.00	L.S	147,208.80	0.00	0.00	0.00	11,776.70	7,949.28	19,725.98	166,934.78	166,934.78
B.9	Mobilization and Demobilization	1.00	L.S	800,970.00	0.00	0.00	0.00	-	40,048.50	40,048.50	841,018.50	841,018.50
B.4(1)	Construction Survey and Staking	1.32	Km.	58,628.00	10.00	8.00	18.00	10,553.04	3,459.05	14,012.09	72,640.09	55,030.37
TOTAL OF PART B												
EARTHWORKS												
102(2)	Surplus Common Excavation	8,171.50	cum.	1,363,289.48	10.00	8.00	18.00	245,392.11	80,434.08	325,826.19	1,689,115.66	206.71
103 (1)	Structure Excavation	2,890.50	cum.	665,149.29	10.00	8.00	18.00	119,726.87	39,243.81	158,970.68	824,119.97	285.11
104(1)a1	Embankment from Roadway Excavation	2,380.50	cum.	269,810.90	10.00	8.00	18.00	48,565.96	15,918.84	64,484.81	334,295.71	140.43
TOTAL OF PART C												
BRIDGE CONSTRUCTION												
404(1)a	Reinforcing Steel Bar, Grade 40	7,608.00	kg.	363,747.14	10.00	8.00	18.00	65,474.49	21,461.08	86,935.57	450,682.71	59.24
404 (1)b	Reinforcing Steel Bar, Grade 60	121,979.00	kg.	6,088,110.81	10.00	8.00	18.00	1,095,859.95	359,198.54	1,455,058.48	7,543,169.29	61.84
405 (1) a3	Structural Concrete, Class A	1,375.50	cum	9,538,937.15	10.00	8.00	18.00	1,717,008.69	562,797.29	2,279,805.98	11,818,743.13	8,592.33
407(8)	Concrete Structure (Lean Concrete)	70.00	cum	568,880.53	10.00	8.00	18.00	102,398.50	33,563.95	135,962.45	704,842.98	10,069.19
TOTAL OF PART D												
DRAINAGE AND SLOPE PROTECTION STRUCTURES												
505(1)a	Grouted Riprap, Class A	427.00	cum	1,321,979.68	10.00	8.00	18.00	237,956.34	77,996.80	315,953.14	1,637,932.83	3,835.91
TOTAL OF PART E												
MISCELLANEOUS STRUCTURES												
522A(1)	Active Protection System	4,979.20	sq.m	67,161,491.40	10.00	8.00	18.00	12,089,068.45	3,962,527.99	16,051,596.45	83,213,087.85	16,712.14
TOTAL OF PART F												
TOTAL												
				89,294,707.39				15,816,165.12	5,255,543.63	21,071,708.74	110,366,416.14	

Prepared by:

Recommending Approval:

Approved:

BELEN A. SAPALLEDA
Head TWD, BAC

CAYANMBAO D. DIA
Assistant Regional Director

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

SUMMARY

Name of Project : **Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City**

Item No.	Description	Quantity	Unit	Labor	Equipment	Materials	OCM	Profit	VAT	TOTAL
102(2)	Surplus Common Excavation	8,171.50	cu.m.	27,896.14	1,335,393.34	-	136,328.95	109,063.16	80,434.08	1,689,115.66
103 (1)	Structure Excavation	2,890.50	cu.m.	29,603.06	635,546.23	-	66,514.93	53,211.94	39,243.81	824,119.97
104(1)a1	Embankment from Roadway Excavation	2,380.50	cu.m.	7,059.41	262,751.50	-	26,981.09	21,584.87	15,918.84	334,295.71
404(1)a	Reinforcing Steel Bar, Grade 40	7,608.00	kg.	22,381.47	17,036.64	324,329.04	36,374.71	29,099.77	21,461.08	450,682.71
404 (1)b	Reinforcing Steel Bar, Grade 60	121,979.00	kg.	358,841.89	273,148.25	5,456,120.67	608,811.08	487,048.86	359,198.54	7,543,169.29
405 (1) a3	Structural Concrete, Class A	1,375.50	cu.m	1,145,521.31	586,352.32	7,807,063.53	953,893.72	763,114.97	562,797.29	11,818,743.13
407(8)	Concrete Structure (Lean Concrete)	70.00	cu.m	32,016.50	135,662.50	401,201.53	56,888.05	45,510.44	33,563.95	704,842.98
505(1 a)	GROUTED RIPRAP, Class A	427.00	cu.m	180,887.45	109,645.57	1,031,446.66	132,197.97	105,758.37	77,996.80	1,637,932.83
522A(1)	Active Protection System	4,979.20	sq.m	3,569,190.14	8,937,532.88	54,654,768.38	6,716,149.14	5,372,919.31	3,962,527.99	83,213,087.85
A.1.1(3)	Const. of Field Office for the Engineer	1.00	LS	53,245.60	31,804.56	312,552.39	39,760.25	31,808.20	23,458.55	492,629.56
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	1.00	LS	-	-	243,650.75	-	-	12,182.54	255,833.29
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	1.00	L.S	79,776.00	-	220,944.00	-	-	15,036.00	315,756.00
B.5	Project Billboard	2.00	Unit	434.90	-	4,096.00	453.09	362.47	267.32	5,613.79
B.7	Occupational Safety & Health Program	1.00	L.S	134,848.80	-	12,360.00	-	11,776.70	7,949.28	166,934.78
B.9	Mobilization and Demobilization	1.00	L.S	-	800,970.00	-	-	-	40,048.50	841,018.50
B.4(1)	Construction Survey and Staking	1.32	Km.	36,734.54	7,193.45	14,700.00	5,862.80	4,690.24	3,459.05	72,640.09
TOTAL									5,255,543.63	110,366,416.14

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road
Item No./Description : 102(2) Surplus Common Excavation
Unit of Measurement : cu.m.
Output per hour : 60.00
Quantity : 8,171.5

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor					
a. Construction Foreman		1	17.02	611.92	10,417.30
b. Laborer		3	17.02	342.24	17,478.84
Sub-total for A				P	27,896.14
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a. Bullduzer		1	17.02	27,032.00	460,191.64
b. Payloader		1	17.02	13,864.00	236,020.16
c. Payloader		1	4.26	13,864.00	59,005.04
d. Dumptruck		3	17.02	11,360.00	580,176.50
Sub-total for B				P	1,335,393.34
C. Total (A+B)				P	1,363,289.48
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
F. Direct Cost (C+E)					1,363,289.48
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		136,328.95
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		109,063.16
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		80,434.08
J. Total Unit Cost					206.71

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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

Unit of Measurement : cu.m.

Output per hour : 20.00

Quantity : 2,890.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	18.07	611.92	11,054.72
b. Laborers	3	18.07	342.24	18,548.34
Sub-total for A				P 29,603.06
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Dumptruck	2	18.07	11,360.00	410,451.00
b. Backhoe	1	18.07	12,296.00	222,134.93
Minor Tools (10% of Labor)				2,960.31
Sub-total for B				P 635,546.23
C. Total (A+B)				P 665,149.29
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
F. Direct Cost (C+E)				665,149.29
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		66,514.93
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		53,211.94
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		39,243.81
J. Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

Item No./Description : 104(1)a1 Embankment from Roadway Excavation

Unit of Measurement : cu.m.

Output per hour : 50.00

Quantity : 2,380.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
For Excavation Work				
a. Construction Foreman	1	2.47	611.92	1,511.30
b. Laborer	2	2.47	342.24	1,690.51
Spreading & Compaction				
a. Construction Foreman	1	2.98	611.92	1,820.84
b. Laborer	2	2.98	342.24	2,036.76
Sub-total for A			P	7,059.41
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
For Excavation Work				
a. Bulldozer	1	2.47	27,032.00	66,762.79
b. Payloader	1	2.47	13,864.00	34,240.87
c. Dumptruck	2	2.47	11,360.00	56,113.15
Spreading and Compaction				
a. Road Grader	1	2.98	17,384.00	51,728.27
b. Road Roller	1	2.98	13,216.00	39,325.86
c. Water Truck	1	0.74	19,600.00	14,580.56
Sub-total for B			P	262,751.50
C. Total (A+B)			P	269,810.90
D. Output/day 800.00 cu.m. /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E			P	0.00
F. Direct Cost (C+E)				269,810.90
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		26,981.09
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		21,584.87
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		15,918.84
J. Total Unit Cost				140.43

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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

Unit of Measurement : kg.

Output per hour : 180.00

Quantity : 7,608.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor					
a. Construction Foreman		1	5.28	611.92	3,232.98
b. Skilled		2	5.28	443.20	4,683.15
c. Laborer		8	5.28	342.24	14,465.34
Sub-total for A				P	22,381.47
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)					
a. Bar Cutter		1	2.64	1,758.00	4,644.05
b. Bar Bender		1	2.64	2,812.00	7,428.37
c. Cargo Truck		1	0.79	6,264.00	4,964.22
Sub-total for B				P	17,036.64
C. Total (A+B)				P	39,418.10
D. Output/day 1,440.00 kg. /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a. Tie Wire		159.77	kgs	80.00	12,781.44
b. Reinforcing Steel Bar, Grade 40		7,988.40	kgs	39.00	311,547.60
Sub-total for E				P	324,329.04
F. Direct Cost (C+E)					363,747.14
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		36,374.71
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		29,099.77
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		21,461.08
J. Total Unit Cost					59.24

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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

Unit of Measurement : kg.

Output per hour : 180.00

Quantity : 121,979.0

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	84.71	611.92	51,834.30
	b. Skilled Laborer	2	84.71	443.20	75,084.85
	c. Laborer	8	84.71	342.24	231,922.74
Sub-total for A				P	358,841.89
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Bar Cutter	1	42.35	1,758.00	74,458.01
	b. Bar Bender	1	42.35	2,812.00	119,098.94
	c. Cargo Truck	1	12.71	6,264.00	79,591.30
Sub-total for B				P	273,148.25
C.	Total (A+B)			P	631,990.14
D.	Output/day 1,440.00 kg. /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire	2,561.56	kg	80.00	204,924.72
	b. Reinforcing Steel Bar, Grade 60	128,077.95	kg	41.00	5,251,195.95
Sub-total for E				P	5,456,120.67
F.	Direct Cost (C+E)				6,088,110.81
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		608,811.08
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		487,048.86
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		359,198.54
J.	Total Unit Cost				61.84

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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

Unit of Measurement : cu.m

Output per hour : 1.40

Quantity : 1,375.50

Note: Use Two (2) gangs

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor					
a. Construction Foreman		1	61.41	611.92	37,575.71
b. Skilled Laborer		8	61.41	443.20	217,722.00
c. Laborer		16	61.41	342.24	336,250.80
Installation/Removal of Form Works					
a. Skilled Laborer		8	61.41	443.20	217,722.00
b. Laborer		16	61.41	342.24	336,250.80
Sub-total for A				P	1,145,521.31
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)					
a. One Bagger Mixer		2	61.41	1,376.00	168,990.00
b. Concrete Vibrator		2	61.41	972.00	119,373.75
c. Water Truck		2	6.14	19,600.00	240,712.50
Minor Tools (5% of Labor)					57,276.07
Sub-total for B				P	586,352.32
C. Total (A+B)				P	1,731,873.63
D. Output/day 22.40 cu.m /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a. Form Lumber		24,071.25	bd.ft	40.00	962,850.00
b. Plywood		550.20	pc	1,345.00	740,019.00
c. Assorted CW Nails		962.85	kg.	65.00	62,585.25
d. Portland Cement		13,067.25	bag	274.84	3,591,431.13
e. Sand		687.75	cu.m	1,154.20	793,801.05
f. Gravel		1,375.50	cu.m	1,204.20	1,656,377.10
Sub-total for E				P	7,807,063.53
F. Direct Cost (C+E)					9,538,937.15
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		953,893.72
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		763,114.97
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		562,797.29
J. Total Unit Cost					8,592.33

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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

Unit of Measurement : cu.m

Output per hour : 1.40

Quantity : 70.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	6.25	611.92	3,824.50
	b. Skilled Laborer	4	6.25	443.20	11,080.00
	c. Laborer	8	6.25	342.24	17,112.00
Sub-total for A					P 32,016.50
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.25	1,376.00	8,600.00
	b. Concrete Vibrator	1	6.25	730.00	4,562.50
	c. Water Truck	1	6.25	19,600.00	122,500.00
Sub-total for B					P 135,662.50
C.	Total (A+B)				P 167,679.00
D.	Output/day 11.20 cu.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Form Lumber	23.10	bd.ft	40.00	924.00
	b. Plywood	112.00	pc	795.00	89,040.00
	c. Assorted CW Nails	58.10	kg.	65.00	3,776.50
	d. Portland Cement	665.00	bag	274.84	182,770.03
	e. Sand	35.00	cu.m	1,154.20	40,397.00
	f. Gravel	70.00	cu.m	1,204.20	84,294.00
Sub-total for E					P 401,201.53
F.	Direct Cost (C+E)				568,880.53
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	56,888.05
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	45,510.44
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	33,563.95
J.	Total Unit Cost				10,069.19

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

Item No./Description : 505(1a) Grouted Riprap, Class A

Unit of Measurement : cu.m

Output per hour : 1.25

Quantity : 427.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor	a. Construction Foreman	1	42.70	611.92	26,128.98
	b. Skilled Laborer	2	42.70	443.20	37,849.28
	c. Laborer	8	42.70	342.24	116,909.18
	Sub-total for A				P 180,887.45
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)	a. One Bagger Mixer	1	42.70	1,376.00	58,755.20
	b. Water Truck	1	2.14	19,600.00	41,846.00
	Minor Tools (5% of Labor)				9,044.37
	Sub-total for B				P 109,645.57
C. Total (A+B)				P	290,533.02
D. Output/day 10.00 cu.m /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials	a. Cement	1,281.00	bag	274.84	352,072.80
	b. Sand	106.75	cu.m	1,154.20	123,210.85
	c. Gravel Fill	6.41	cu.m	1,204.20	7,712.90
	d. Weep Holes (PVC), 2" dia.	128.10	ln.m	133.00	17,037.30
	e. Filter Cloth	6.41	sq.m	160.00	1,024.80
	f. Boulders	448.35	cu.m	1,160.20	520,175.67
	Miscellaneous (1% of Materials)				10,212.34
Sub-total for E				P	1,031,446.66
F. Direct Cost (C+E)					1,321,979.68
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		132,197.97
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		105,758.37
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		77,996.80
J. Total Unit Cost					3,835.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

Item No./Description : 522A(1) Active Protection System

Unit of Measurement : sq.m

Output per hour : 1.50

Quantity : 4,979.20

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
Soil Nailing of Anchor Bolts				
a. Construction Foreman	1	414.93	611.92	253,906.01
b. Skilled Laborer	2	414.93	443.20	367,796.91
c. Laborer	4	414.93	342.24	568,027.14
Installation of High Tensile Wires & Components				
a. Construction Foreman	1	414.93	611.92	253,906.01
b. Skilled Laborer	2	414.93	443.20	367,796.91
c. Laborer	4	414.93	342.24	568,027.14
Installation of Erosion Control Materials and Vegetation				
a. Construction Foreman	1	414.93	611.92	253,906.01
b. Skilled Laborer	2	414.93	443.20	367,796.91
c. Laborer	4	414.93	342.24	568,027.14
Sub-total for A			P	3,569,190.14
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Hydraulic Telescopic Boom Truck	1	414.93	8,143.20	3,378,885.12
b. Air Compressor	1	414.93	5,848.00	2,426,530.13
c. Drilling Machine Dry Type	1	414.93	3,000.00	1,244,800.00
d. Pull Out Tester	1	62.24	10,000.00	622,400.00
e. Grouting Machine	1	103.73	6,930.00	718,872.00
f. Hydroseeding Machine	1	20.75	7,616.00	158,006.61
g. Power Spray	1	20.75	1,500.00	31,120.00
Minor Tools (10% of Labor)				356,919.01
Sub-total for B			P	8,937,532.88
C. Total (A+B)			P	12,506,723.03
D. Output/day 12.00 sq.m /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Item 552a(1) High-Tensile Wire Mesh & Components (Tecco High, Rope Anchor, Connection, Clips & Wire Rope Anchor)	4,979.20	sq.m	7,900.00	39,335,680.00
b. Item 513(1) Anchor Bolts Mat. (Anchor Bolts 32 mm dia. X length, threading of Bolts with Nuts, 5000psi Non-Shrink Grout, Centralizer and Drill Bit, L=based on the designed length	4,979.20	ln.m	1,608.33	8,008,196.74
c. Item 520 Hydroseeding (3D Geonet/ Erosion Control Matt. Centrosema Seed and Enzyme)	4,979.20	sq.m	750.19	3,735,346.05
d. Additional 7% Materials Cost for Mindanao Area (Mobilization/ Hauling/Handling Purposes)				3,575,545.59
Sub-total for E			P	54,654,768.38
F. Direct Cost (C+E)				67,161,491.40
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		6,716,149.14
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		5,372,919.31
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		3,962,527.99
J. Total Unit Cost				16,712.14

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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				P	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				P	31,804.56
C. Total (A+B)				P	85,050.16
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	1,204.20	4,214.70
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 (Footing, Columns, Beams & Slab on Grade)					
a.	Portland Cement	90.00	bag	274.84	24,735.79
b.	Crushed Gravel	20.00	cu.m	1,204.20	24,084.00
c.	Washed Sand	17.00	cu.m	1,154.20	19,621.40
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	81.00	1,620.00
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	274.84	13,742.11
c.	Washed Sand	10.00	cu.m	1,154.20	11,542.00
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					169,026.04
Sub-total for E				P	312,552.39
F. Direct Cost (C+E)					397,602.55
G. Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016	39,760.25
H. Contractor's Profit (CP)				8% per D.O 197 s 2016	31,808.20
I. Value Added Tax (VAT)				5% per D.O 197 s 2016	23,458.55
J. Total Unit Cost					492,629.56

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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				P	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				P	0.00
C.	Total (A+B)				P 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 Cromate	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 tanguile	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				P	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 : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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 Flourescent lighting fixlures	5.00	set	1,500.00	7,500.00
	b. Porcelain Ceiling Outlet w/ femal	2.00	pc	50.00	100.00
	c. douplex Convinience outlet	3.00	pc	170.00	510.00
	d. two gang switch	3.00	pc	132.00	396.00
	e. 3.5mm2 thw	3.00	roll	3,600.00	10,800.00
	f. 8.00mm2 thw	25.00	m	69.33	1,733.25
	g. 15mm dia. PVC pipe	20.00	pc	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 : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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
C. Total (A+B)			P	0.00
D. Output/day 0.00 LS /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
<i>Office Equipment/Facilities & Supplies</i>				
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	3,603.43	3,603.43
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 dinning 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	6.00	unit	350.00	2,100.00
v. Pencil Lead, No. 5	4.00	box	145.00	580.00
w. Puncher	1.00	Unit	253.32	253.32
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
<i>Lighting/Water Fixtures</i>				
a. Electric Bill	4.00	mons	1,201.00	4,804.00
b. Water Bill	4.00	mons	1,200.00	4,800.00
c. LPG Gasul (11 kg)	4.00	mons	1,000.00	4,000.00
Sub-Total for E				243,650.75
Sub-total for E			P	243,650.75
F. Direct Cost (C+E)				243,650.75
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	12,182.54
J. Total Unit Cost				255,833.29

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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	180.00	443.20	79,776.00
Sub-total for A				P	79,776.00
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	79,776.00
D.	Output/day	0.00	L.S	/day	
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Liters, Diesel Fuel	1,800.00	liters	35.00	63,000.00
	b. Engine Oil & Lubricants	1.00	ls	19,944.00	19,944.00
	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	220,944.00
F.	Direct Cost (C+E)				300,720.00
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	15,036.00
J.	Total Unit Cost				315,756.00

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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 ACEL Rates)					
Sub-total for B				P	0.00
C. 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	423.00	846.00
b. Tarpaulin (4' x 8')		2.00	pc	800.00	1,600.00
c. Assorted Sizes Lumber		100.00	bd. Ft	15.00	1,500.00
d. Assorted Sizes CW Nails		2.00	kg	75.00	150.00
Sub-total for E				P	4,096.00
F. Direct Cost (C+E)					4,530.90
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		453.09
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		362.47
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		267.32
J. Total Unit Cost					2,806.89

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads -
Lanao - Pagadian - Zamboanga City Road

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	90.00	611.92	55,072.80
	b. First Aider	1	180.00	443.20	79,776.00
Sub-total for A				P	134,848.80
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	134,848.80
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 (Maong 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
F. Direct Cost (C+E)					147,208.80
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	11,776.70
I. Value Added Tax (VAT)				5% per D.O 197 s 2016	7,949.28
J. Total Unit Cost					166,934.78

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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 ACEL Rates)				
	a. Low Bed Trailer	2	3.00	34,043.00	204,258.00
	b. Water Truck	2	3.00	19,600.00	117,600.00
	c. Backhoe	2	3.00	12,296.00	73,776.00
	d. Payloader	2	3.00	13,864.00	83,184.00
	e. Dumptruck	2	3.00	11,360.00	68,160.00
	f. Bullduzer	2	3.00	27,032.00	162,192.00
	g. Road Roller	1	3.00	13,216.00	39,648.00
	h. Road Grader	1	3.00	17,384.00	52,152.00
Sub-total for B				P	800,970.00
C.	Total (A+B)			P	800,970.00
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
F.	Direct Cost (C+E)				800,970.00
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				40,048.50
J.	Total Unit Cost				841,018.50

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Rehabilitation/Reconstruction of Roads with slips, slope collapse and landslide - Primary Roads - Lanao - Pagadian - Zamboanga City Road

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

Unit of Measurement : Km.

Output per hour : 0.04

Quantity : 1.32

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor	(For Field Works)				
	a. Geodetic Engineer	1	4.40	833.31	3,666.56
	b. Skilled Laborer	3	4.40	443.20	5,850.24
	c. Laborer	3	4.40	342.24	4,517.57
	(For Office Works)				
	a. Geodetic Engineer	1	13.20	833.31	10,999.69
	b. Skilled Laborer	2	13.20	443.20	11,700.48
Sub-total for A				P	36,734.54
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
	a. Total Station w/ complete accessories	1	4.40	800.00	3,520.00
	Minor Tools (10% of labor)				3,673.45
Sub-total for B				P	7,193.45
C. Total (A+B)				P	43,928.00
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
F. Direct Cost (C+E)					58,628.00
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		5,862.80
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		4,690.24
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		3,459.05
J. Total Unit Cost					55,030.37