

Republic of the Philippines
Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

NAME OF PROJECT :	Appropriation : P	120,000,000.00
National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)	Source of Funds :	CY-2018 GAA
LOCATION:	Issued Obligated Authority :	
Isabela City, Basilan	Released :	
PROJECT CATEGORY :	Cal. Days to Complete :	252 Calendar Days
NATIONAL ROAD	Desirable Starting Date :	upon approval
	Mode of Implementation :	by contract

PROJECT DESCRIPTION :	Station Limits:
Scope of Work : Construction of Roads	K0008+000.00 - K0011+500.00
Road Width : 6.70 m.	
Roadbed Width : 12.00 m.	
Subbase Course : 0.30 m. thk.	Net length: 7.000 Lane Km.
Surface Course : 0.15 m. thk.	Net length: 3,500.00 In.m. 3.50 Km

MINIMUM EQUIPMENT REQUIREMENT :				TECHNICAL PERSONNEL REQUIRED :			
Description	No.	Description	No.	Description	No.		
Dump Truck	12	Water Pump	1	Project Engineer	1		
Transfi Mixer	4	Concrete Screeder	1	Materials Engineer	1		
Bulldozer	2	Concrete Vibrator	2	Geometric Surveyor	1		
Backhoe	3	Concrete Cutter	2	Foreman	1		
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1		
Road Roller	2	Bar Bender	1	Mason	12		
Payloader	4	One Bagger Mixer	2	Carpenter	8		
Water Truck	2	Batching Plant	1	Laborers (Skilled)	20		
Water Tank	2	Plate Compactor	1	Laborers (Unskilled)	30		
Kneading Machine	1	Cargo Truck	1	Safety Practitioner	1		
Applicator Machine	1						

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST

PART A - FACILITIES FOR THE ENGINEER

A.1.1(3)	Bunkhouse, 7.00 m. x 9.00 m.	0.48	L.S.	1.00	452,307.19	452,307.19
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.14	L.S.	1.00	126,689.41	126,689.41
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.53	month	8.40	491,224.64	58,479.12

PART B - OTHER GENERAL REQUIREMENTS

B.4(1)	Construction Survey & Staking	0.14	km.	3.50	129,146.02	36,898.86
B.5	Project Billboard/Signboard	0.01	each	2.00	12,851.20	6,425.60
B.7	Occupation Safety and Health Program	0.86	month	8.40	799,273.92	95,151.66
B.9	Mobilization & Demobilization	0.89	L.S.	1.00	832,182.00	832,182.00

PART C - EARTHWORKS

101(2)	Removal of Existing Headwall	0.01	cu.m.	18.00	6,058.45	336.58
101(3)b1	Removal of Existing Paved Shoulder PCCP	0.11	sq.m.	878.00	101,394.84	115.48
101(4)a	Removal of Existing RCPC	0.02	ea.	45.50	16,866.89	370.70
101(6)	Removal of Structures and Obstruction	0.20	cu.m.	544.50	182,385.72	334.96
101(8)	Removal of Existing Guardrails	0.10	ln.m.	620.00	93,063.55	150.10
101(9)	Removal of Existing Guardrail Posts	0.03	each	254.00	24,385.59	96.01
102(2)	Surplus Common Excavation	5.38	cu.m.	35,410.50	5,021,831.53	141.82
103(1)a	Structure Excavation	0.03	cu.m.	111.50	25,657.89	230.12
103(3)	Foundation Fill	0.03	cu.m.	9.00	28,916.18	3,212.91
103(6)a	Pipe Culvert and Drain Excavation	0.02	cu.m.	64.50	14,842.46	230.12
104(1)a1	Embankment from Roadway Excavation	1.84	cu.m.	7,545.00	1,715,058.70	227.31
105(1)a	Subgrade Preparation	0.56	sq.m.	32,600.00	520,899.10	15.98

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course	30.44	cu.m.	13,113.50	28,428,540.28	2,167.88
PART E - SURFACE COURSES						
300(1)	Gravel Surface Course	3.73	cu.m.	1,698.50	3,486,822.62	2,052.88
311(1)e1	Portland Cement Concrete Pavement, 280 mm. thk.	50.72	sq.m.	23,450.00	47,375,680.70	2,020.28
311(1)a	Portland Cement Concrete Pavement, 150 mm. thk.	0.27	sq.m.	228.00	252,972.57	1,109.53
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
404(1b)	Reinforcing Steel Bar, Grade 60	0.56	kg.	10,716.50	527,001.45	49.18
405(1a3)	Structural Concrete, Class "A "	1.19	cu.m.	128.50	1,110,662.54	8,643.29
407(8)	Concrete Structure (Lean Concrete)	0.04	cu.m.	10.00	33,667.01	3,366.70
500(1)a3	R.C. Culvert Pipe, 910 mm. dia.	0.37	ln.m.	76.00	345,881.61	4,551.07
505(5)	Grauted Riprap, Class 'A'	0.14	cu.m.	31.50	126,491.98	4,015.62
506(1)	Stone Masonry	0.37	cu.m.	70.50	345,101.18	4,895.05
PART H - MISCELLANEOUS STRUCTURES						
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	0.83	sq.m.	1,051.00	772,178.56	734.71
TOTAL				100.00	P 93,400,035.79	

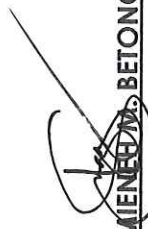
NAME OF PROJECT :

National Roads and Bridges-National Roads-
Construction/Repair/Rehabilitation/Improvement of Various Infrastructure
including Local Projects- Road Widening along Basilan Circumferential Road (BCR)
Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

Isabela City

BREAKDOWN OF ESTIMATED EXPENDITURES		% OF TOTAL	AMOUNT
I. ESTIMATED COST			
A. DIRECT COST			
A.1. Labor	1.44		1,729,541.89
A.2. Equipment Expenses	12.47		14,966,943.73
A.3. Materials	63.92		76,703,550.18
SUB-TOTAL (DIRECT COST)	77.83	P	93,400,035.79
B. INDIRECT COST (Per D.O. # 197, s. 2016)			
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.60		9,115,066.58
B.2. Profit (8 % Max. of D.C.)	6.14		7,366,130.33
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	4.58		5,494,061.64
SUBTOTAL (CONTRACT COST)	96.15	P	115,375,294.34
II. ESTIMATED GOVERNMENT EXPENDITURES			
1. Engineering and Administrative Overhead (3.5%)	3.50		4,200,000.00
2. Detailed Engineering (1%)	0.35		424,705.66
3. Reserved for the Payment of RRWW	0.00		
4. Physical Reserved			
TOTAL ESTIMATED PROJECT COST	100.00	P	120,000,000.00

Prepared :


SHERMIEN D. BETONGGA
Engineer II

Checked :


JERALD R. BARRERA
Engineer II

Submitted :


LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval :


CAYAMBABO D. DIA
Assistant Regional Director

Approved :


JORGE U. SEBASTIAN JR. CESO III
Regional Director

National Roads and Bridges - National Roads - Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - Road Widening along Baslian Circumferential Road (BCR) Isabela-Maluso Road, Isabela City.

3,500.00 ln.m.

Contract Duration : -

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %	PROFIT	%	VALUE	VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
A.1.1(3)	Bunkhouse, 7.00 m. x 9.00 m.	1.00	L.S.	452,307.19	18.00	8.00	18.00	81,415.29	26,666.12	108,101.42	560,408.61	560,408.61
A.1.1(1)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	126,689.41	-	8.00	8.00	10,135.15	6,841.23	16,976.38	143,665.79	143,665.79
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	8.40	month	491,224.64	-	-	-	-	24,561.23	515,785.87	61,403.08	61,403.08
TOTAL OF PART A				1,070,221.24	91,550.45	58,088.58				149,639.03	1,219,860.28	
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey & Staking	3.50	km.	129,146.02	18.00	8.00	18.00	23,246.28	7,619.62	30,865.90	160,011.92	45,717.69
B.5	Project Billboard/signboard	2.00	each	12,851.20	18.00	8.00	18.00	2,313.22	758.22	3,071.44	15,922.64	7,961.32
B.7	Occupation Safety and Health Program	8.40	month	799,273.92	-	8.00	8.00	63,941.91	43,160.79	107,102.71	906,376.63	107,901.98
B.9	Mobilization & Demobilization	1.00	L.S.	832,182.00	-	-	-	-	-	41,609.10	873,791.10	873,791.10
TOTAL OF PART B				1,773,453.14	89,501.41	93,147.73				182,649.14	1,956,102.28	
PART C - EARTHWORKS												
101(12)	Removal of Existing Headwall	18.00	cum.	6,058.45	18.00	8.00	18.00	1,090.52	357.45	1,447.97	7,506.42	417.02
101(3)b1	Removal of Existing Paved Shoulder PCCP	878.00	sq.m.	101,394.84	18.00	8.00	18.00	18,251.07	5,928.37	24,233.37	143,08	143.08
101(4)a	Removal of Existing RCPC	45.50	ea.	16,866.89	18.00	8.00	18.00	3,036.04	995.15	4,031.19	20,898.07	459.30
101(6)	Removal of Structures and Obstruction	544.50	cum.	182,385.72	18.00	8.00	18.00	32,829.43	10,760.76	43,590.19	225,976.91	415.02
101(8)	Removal of Existing Guardrails	620.00	ln.m.	93,063.55	18.00	8.00	18.00	16,751.44	5,490.75	22,242.19	115,305.74	185.98
102(2)	Removal of Existing Guardrail Posts	254.00	each	24,385.59	18.00	8.00	18.00	4,389.41	1,438.75	5,828.16	30,213.74	118.95
103(1)a	Structure Excavation	111.50	cum.	25,657.89	18.00	8.00	18.00	4,618.42	1,513.82	6,132.24	31,790.13	285.11
103(3)	Foundation Fill	9.00	cum.	28,916.18	18.00	8.00	18.00	5,204.91	1,704.05	6,910.97	35,827.15	3,980.79
103(6)a	Pipe Culvert and Drain Excavation	64.50	cum.	14,842.46	18.00	8.00	18.00	2,671.64	875.71	3,547.35	18,389.81	285.11
104(1)a1	Embankment from Roadway Excavation	7,545.00	cum.	1,715,058.70	18.00	8.00	18.00	308,710.57	101,188.46	409,899.03	2,124,957.73	281.64
105(1)a	Subgrade Preparation	32,600.00	sq.m.	520,899.10	18.00	8.00	18.00	93,761.84	30,733.05	124,494.88	645,393.98	19.80
TOTAL OF PART C				7,751,360.91	1,395,244.96	457,330.29				1,852,575.26	9,603,936.17	
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course	13,113.50	cum.	28,428,540.28	18.00	8.00	18.00	5,117,137.25	1,677,283.88	6,794,421.13	35,222,961.40	2,686.01
TOTAL OF PART D				28,428,540.28	5,117,137.25	1,677,283.88				6,794,421.13	35,222,961.40	
PART E - SURFACE COURSES												
300(1)	Gravel Surface Course	1,698.50	cum.	3,486,822.62	18.00	8.00	18.00	627,628.07	205,722.53	833,350.61	4,420,173.23	2,543.52
311(1)e1	Portland Cement Concrete Pavement, 280 mm. thk.	23,450.00	sq.m.	47,375,680.70	18.00	8.00	18.00	8,527,622.53	2,795,165.16	11,322,787.69	58,698,468.39	2,503.13
311(1)e	Portland Cement Concrete Pavement, 150 mm. thk.	228.00	sq.m.	252,972.57	18.00	8.00	18.00	45,535.06	14,925.38	60,460.44	313,433.01	1,374.71
TOTAL OF PART E				51,115,475.89	9,200,785.66	3,015,813.08				12,216,598.74	63,332,074.63	
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES												
404(1b)	Reinforcing Steel Bar, Grade 60	10,716.50	kg.	527,001.45	18.00	8.00	18.00	94,860.26	31,093.09	125,953.35	652,954.80	60.93
405(1a3)	Structural Concrete, Class "A."	128.50	cum.	1,110,662.54	18.00	8.00	18.00	199,919.26	65,629.06	265,448.35	1,376,110.88	10,709.03
407(8)	Concrete Structure (Lean Concrete)	10.00	cum.	33,667.01	18.00	8.00	18.00	6,060.06	1,984.35	8,046.42	41,713.42	4,171.34
500(1)a3	R.C. Culvert Pipe, 910 mm. dia.	76.00	ln.m.	345,881.61	18.00	8.00	18.00	62,258.69	20,407.02	82,665.70	428,647.32	5,638.78
505(5)	Grouted Riprap, Class "A"	31.50	cum.	126,491.98	18.00	8.00	18.00	22,768.56	7,463.03	30,231.59	153,723.56	4,975.35
506(1)	Stone Masonry	70.50	cum.	345,101.18	10.00		18.00	62,118.21	20,360.97	82,479.18	427,580.37	6,064.97

BELEN A. SAPALIEDA
Head, BAC Technical Working Group

LEONCIO R. SOLAMILLO
Chief, Construction Division

CAYAMOMBAO D. DIA
Assistant Regional Director

JORGE V. SAMPANAN JR.
Regional Director

Prepared by :

submitted by :

Recommending Approval:

Approved by :

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %	OCM	PROFIT	VALUE	VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
PART H - MISCELLANEOUS STRUCTURES												
TOTAL OF PART G				2,488,805.77				447,985.04	146,839.54	594,824.58	3,083,630.35	
								58((5) + (9))	(9) + (10)	(5) + (11)	(12) / (3)	
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	1,051.00	sq.m.	772,178.56	10.00	8.00	18.00	138,992.14	45,558.54	184,550.68	956,729.24	910.30
TOTAL OF PART H				772,178.56				138,992.14	45,558.54	184,550.68	956,729.24	
TOTAL				93,400,035.79				16,481,196.91	5,494,061.64	21,975,258.55	115,375,294.34	

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

Item No./Description:

101(6) Removal of Structures and Obstruction

Unit of Measurement:

cu.m.

Output per hour:

10.00

Quantity:

544.50

For RCPC Installation (R&R)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	6.81	611.92	4,164.88
	b. Unskilled Labor	2	6.81	342.24	4,658.74
Sub-total for A					P 8,823.62
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	3.40	15,984.80	54,398.27
	b. Backhoe - for loading	1	3.40	12,296.00	41,844.83
	c. Dump Truck (12 cu.yd.)	1	6.81	11,360.00	77,319.00
Sub-total for B					P 173,562.10
C.	Total (A+B)				182,385.72
D.	Output/day	80.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				182,385.72
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		18,238.57
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		14,590.86
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		10,760.76
J.	Total Unit Cost				415.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

Item No./Description:

101 (3)b1 Removal of Existing Paved Shoulder PCCP

Unit of Measurement:

sq.m.

Output per hour:

40.00

Quantity:

878.00

Existing Paved Shoulder

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.74	611.92	1,678.96
	b. Unskilled Labor	2	2.74	342.24	1,878.04
Sub-total for A					
				P	3,557.00
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	2.74	15,984.80	43,858.30
	b. Payloader (1.50 cu.m.), LX80-2C	1	2.74	13,864.00	38,039.35
	c. Dump Truck (12 cu.yd.)	1	1.37	11,360.00	15,584.50
	Minor Tools 10% of Labor				355.70
	Sub-total for B			P	97,837.84
C.	Total (A+B)				101,394.84
D.	Output/day	320.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Sub-total for E			P	-
F.	Direct Cost (C + E)				101,394.84
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		10,139.48
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		8,111.59
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		5,982.30
J.	Total Unit Cost				143.08

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

Item No./Description:

101(4)a Removal of Existing RCPC

Unit of Measurement:

ea.

Output per hour:

6.00

Quantity:

45.50

Removal of Existing RCPC, (ø10mm. Dia)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.95	611.92	580.05
	b. Unskilled Labor	2	0.95	342.24	648.83
Sub-total for A					P 1,228.88
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe	1	0.95	12,296.00	11,655.58
	b. Boom Truck	1	0.47	8,143.20	3,859.54
	Mina				122.89
Sub-total for B					P 15,638.01
C.	Total (A+B)				16,866.89
D.	Output/day	48.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				16,866.89
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,686.69
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,349.35
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		995.15
J.	Total Unit Cost				459.30

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

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

101(2) Removal of Existing Headwall
cu.m.

10.00
18.00

Removal of Existing Headwall

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.23	611.92	137.68
	b. Unskilled Labor	2	0.23	342.24	154.01
Sub-total for A					
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/Breaker	1	0.11	15,984.80	1,798.29
	b. Backhoe - for loading	1	0.11	12,296.00	1,383.30
	c. Dump Truck (12 cu.yd.)	1	0.23	11,360.00	2,556.00
	Minor Tools 10% of Labor				29.17
Sub-total for B					
C.	Total (A+B)			P	5,766.76
Sub-total for C					
D.	Output/day	80.00	In.m./day		6,058.45
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					
F.	Direct Cost (C + E)			P	-
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		6,058.45
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		484.68
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		357.45
J.	Total Unit Cost				417.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

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

101 (8) Removal of Existing Guardrails
In.m. 20.00
620.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.88	611.92	2,371.19
	c. Laborer	2	3.88	342.24	2,652.36
Sub-total for A					P 5,023.55
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck	2	3.88	11,360.00	88,040.00
Sub-total for B					P 88,040.00
C.	Total (A+B)				93,063.55
D.	Output/day	160.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				93,063.55
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		9,306.36
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		7,445.08
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		5,490.75
J.	Total Unit Cost				185.98

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)
101(9) Removal of Existing Guardrail Posts

Item No./Description:

Unit of Measurement: each

Output per hour: 8.00

Quantity: 254.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.97	611.92	2,428.56
	b. Unskilled Labor	2	3.97	342.24	2,716.53
Sub-total for A					P 5,145.09
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck	1	1.98	9,696.00	19,240.50
Sub-total for B					P 19,240.50
C.	Total (A+B)				24,385.59
D.	Output/day	64.00	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				24,385.59
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,438.56
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		1,950.85
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,438.75
J.	Total Unit Cost				118.95

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

Item No./Description:

102(2) Surplus Common Excavation

Unit of Measurement:

cu.m.

Output per hour:

60.00

Quantity:

35,410.50

For Disposal
Use 2 Gang

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	36.89	611.92	22,571.24
	b. Unskilled Labor	4	36.89	342.24	50,495.37
Sub-total for A					P 73,066.62
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bulldozer, D6H Series II PSDS/DD	2	36.89	27,032.00	1,994,201.33
	b. Payloader (1.50 cu.m.)	2	36.89	13,864.00	1,022,773.28
	c. Payloader (1.50 cu.m.) - at disposal area	2	9.22	13,864.00	255,693.32
	d. Dump Truck (12 cu.yd.)	4	36.89	11,360.00	1,676,097.00
Sub-total for B					P 4,948,764.92
C.	Total (A+B)				5,021,831.53
D.	Output/day	960.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				5,021,831.53
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		502,183.15
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		401,746.52
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		296,288.06
J.	Total Unit Cost				175.71

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusog Road, Isabela City, Basilan including Road Right of Way (ROW) 103(1)a Structure Excavation

Item No./Description:

cu.m.

Unit of Measurement:

20.00

Output per hour:

111.50

Quantity:

For Lined Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.70	611.92	426.43
	b. Unskilled Labor	3	0.70	342.24	715.50
Sub-total for A					
P					
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	0.70	11,360.00	15,833.00
	b. Backhoe (0.80 cu.m.)	1	0.70	12,296.00	8,568.78
Minor Tools					114.19
Sub-total for B					
Total (A+B)				P	24,515.97
Output/day		160.00	cu.m./day		25,657.89
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					
P					
Direct Cost (C + E)					25,657.89
Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016		2,565.79
Contractor's Profit (CP)			8% per D.O. 197, s. 2016		2,052.63
Value Added Tax (VAT)			5% per D.O. 197, s. 2016		1,513.82
Total Unit Cost					285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 103(3) Foundation Fill

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

1.25
9.00

For RCPC Beddings

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.90	611.92	550.73
	b. Unskilled Labor	4	0.90	342.24	1,232.06
Sub-total for A				P	1,782.79
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Plate Compactor	1	0.90	984.00	885.60
	b. Water Truck/Pump (16000 L)	1	0.01	19,600.00	176.40
	Minor Tools 10% of Labor				178.28
Sub-total for B				P	1,240.28
C.	Total (A+B)				3,023.07
D.	Output/day	10.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Filling Materials (Granular Materials for Bedding)	10.35	cu.m.	2,501.75	25,893.11
Sub-total for E				P	25,893.11
F.	Direct Cost (C + E)				28,916.18
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,891.62
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		2,313.29
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,706.05
J.	Total Unit Cost				3,980.79

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 103(a) Pipe Culvert and Drain Excavation

Item No./Description:

cu.m.

Unit of Measurement:

20.00

Output per hour:

64.50

Quantity:

For RCPC Excavation

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.40	611.92	246.68
	b. Unskilled Labor	3	0.40	342.24	413.90
Sub-total for A					660.58
P					
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	0.40	11,360.00	9,159.00
	b. Backhoe (0.80 cu.m.)	1	0.40	12,296.00	4,956.83
	Minor Tools 10% of Labor				66.06
Sub-total for B					14,181.88
C.	Total (A+B)			P	14,842.46
D.	Output/day	160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					-
F.	Direct Cost (C + E)			P	14,842.46
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,484.25
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		1,187.40
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		875.71
J.	Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 104(1)a1 Embankment from Roadway Excavation

Item No./Description:

Unit of Measurement:

50.00

Output per hour:

7,545.00

Quantity:

Compacted Volume (from Excavation)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work:				
	a. Const. Foreman	1	15.66	611.92	9,580.14
	c. Unskilled Labor	2	15.66	342.24	10,716.13
	Spreading and Compaction				
	a. Const. Foreman	1	18.86	611.92	11,542.34
	c. Unskilled Labor	2	18.86	342.24	12,911.00
Sub-total for A					P 44,749.62
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	For Excavation Work				
	a. Bulldozer, D6H Series II PSDS/DD	1	15.66	27,032.00	423,209.61
	b. Backhoe (0.80 cu.m.)	1	15.66	12,296.00	192,504.64
	c. Dump Truck (12 cu.yd.)	2	15.66	11,360.00	355,701.48
	Spreading and Compaction				
	a. Motorized Road Grader (140 hp), G170A	1	18.86	17,384.00	327,905.70
	b. Vibratory Roller (10 mt), SD100C	1	18.86	14,768.00	278,561.40
	c. Water Truck/Pump (16000 L)	1	4.72	19,600.00	92,426.25
	Sub-total for B			P	1,670,309.08
C.	Total (A+B)				1,715,058.70
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Sub-total for E			P	-
F.	Direct Cost (C + E)				1,715,058.70
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		171,505.87
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		137,204.70
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		101,188.46
J.	Total Unit Cost				281.64

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusao Road, Isabela City, Basilan including Road Right of Way (ROW)
105(1)a Subgrade Preparation

Item No./Description:

sq.m.

Unit of Measurement:

Output per hour:

Quantity:

300.00

32,600.00

Variable Width

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	13.58	611.92	8,311.91
	b. Unskilled Labor	2	13.58	342.24	9,297.52
Sub-total for A					P 17,609.43
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	13.58	17,384.00	236,132.67
	b. Vibratory Roller (10 mt), SD100DC	1	13.58	14,768.00	200,598.67
	c. Water Truck/Pump (16000 L)	1	3.40	19,600.00	66,558.33
Sub-total for B					P 503,289.67
C.	Total (A+B)				520,899.10
D.	Output/day	2,400.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				520,899.10
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		52,089.91
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		41,671.93
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		30,733.05
J.	Total Unit Cost				19.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusog Road, Isabela City, Basilan including Road Right of Way (ROW)

Item No./Description:

200(1) Aggregate Subbase Course

Unit of Measurement:

cu.m.

Output per hour:

50.00

Quantity:

13,113.50

0.30 m. *thk. (min.)*, *Compacted Volume*

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	32.78	611.92	20,061.03
	b. Unskilled Labor	2	32.78	342.24	22,439.82
Sub-total for A					P 42,500.85
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	32.78	17,384.00	569,912.71
	b. Vibratory Roller (10 mt), SD100DC	1	32.78	14,768.00	484,150.42
	c. Water Truck/Pump (16000 L)	1	8.20	19,600.00	160,640.38
Sub-total for B					P 1,214,703.51
C.	Total (A+B)				1,257,204.36
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Aggregate Subbase Course (w/ 15% Shrinkage Factor)	15,080.53	cu.m.	1,801.75	27,171,335.92
Sub-total for E					P 27,171,335.92
F.	Direct Cost (C + E)				28,428,540.28
G.	Overhead, Contingencies and Miscellaneous	10% per D.O. 197, s. 2016			2,842,854.03
H.	Contractor's Profit (CP)	8% per D.O. 197, s. 2016			2,274,283.22
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016			1,677,283.88
J.	Total Unit Cost				2,686.01

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 300(1) Gravel Surface Course

Item No./Description:

Unit of Measurement: cu.m.

Output per hour:

Quantity:

50.00
1,698.50

0.15 m. i/hk. For shouldering, Compacted
Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.25	611.92	2,598.37
	b. Unskilled Labor	2	4.25	342.24	2,906.47
Sub-total for A					P 5,504.84
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	4.25	17,384.00	73,816.81
	b. Vibratory Roller (10 mt), SD100DC	1	4.25	14,768.00	62,708.62
	c. Water Truck/Pump (16000 L)	1	1.06	19,600.00	20,806.63
Sub-total for B					P 157,332.06
C.	Total (A+B)				162,836.89
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Uncrushed Aggregate Surface Course (w/ 15% Shrinkage Factor)	1,953.28	cu.m.	1,701.75	3,323,985.73
Sub-total for E					P 3,323,985.73
F.	Direct Cost (C + E)				3,486,822.62
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		348,682.26
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		278,945.81
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		205,722.53
J.	Total Unit Cost				2,543.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)

Item No./Description:

311(1)e1 Portland Cement Concrete Pavement, 280 mm. thk.

Unit of Measurement:

sq.m.

57.50

Output per hour:

23,450.00

0.28 m. thk., width = 6.70m

Quantity:

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	50.98	611.92	31,194.62
	b. Skilled Labor	4	50.98	443.20	90,374.26
	c. Unskilled Labor	12	50.98	342.24	209,361.60
Sub-total for A					330,930.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	50.98	10,544.00	2,150,059.13
	b. Concrete Vibrator	2	50.98	730.00	74,428.26
	c. Concrete Batch Plant (30 cu.m.)	1	50.98	14,076.00	717,570.00
	d. Payloader (1.50 cu.m.), LX80-2C	1	50.98	13,864.00	706,762.61
	e. Concrete Screeder (5.5 hp)	1	50.98	4,360.00	222,265.22
	f. Water Truck/Pump (16000 L)	1	50.98	19,600.00	999,173.91
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	50.98	261.04	13,307.37
	h. Bar Cutter, Single Phase	1	5.10	1,758.00	8,961.98
	Minor Tools 5% of Labor				16,546.52
Sub-total for B					4,909,075.00
C.	Total (A+B)				5,240,005.48
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	11,725.00	kg.	47.00	551,075.00
	b. Curing Compound	6,800.50	L	48.00	326,424.00
	c. Asphalt Sealant	3,986.50	L	100.00	398,650.00
	d. Steel Forms (Rental)	10,787.00	m	60.00	647,220.00
	e. Sand	3,611.30	cu.m.	2,501.75	9,034,569.78
	f. Gravel	6,566.00	cu.m.	1,801.75	11,830,290.50
	g. Cement	62,377.00	bag	309.00	19,274,493.00
	h. Concrete Saw (Diamond Blade 14" Ø)	3.52	pc.	8,000.00	28,140.00
	i. Pipe Sleeve, 2" Ø	182.91	m.	110.00	20,120.10
	j. Grease/Tar	182.91	L	135.00	24,692.85
Sub-total for E					42,135,675.23
F.	Direct Cost (C + E)			P	47,375,680.70
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		4,737,568.07
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,790,054.46
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,795,165.16
J.	Total Unit Cost				2,503.13

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 311(1)a Portland Cement Concrete Pavement, 150 mm. thk.

Item No./Description:

sq.m.

Unit of Measurement:

Output per hour:

Quantity:

107.33
228.00

For shouldering

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.27	611.92	162.49
	b. Skilled Labor	4	0.27	443.20	470.74
	c. Unskilled Labor	12	0.27	342.24	1,090.53
Sub-total for A					
				P	1,723.75
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	0.27	10,544.00	11,199.25
	b. Concrete Vibrator	2	0.27	730.00	387.68
	c. Concrete Batch Plant (30 cu.m.)	1	0.27	14,076.00	3,737.69
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.27	13,864.00	3,681.39
	e. Concrete Screeder (5.5 hp)	1	0.27	4,360.00	1,157.74
	f. Water truck/Pump (16000 L)	1	0.27	19,600.00	5,204.51
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	0.27	261.04	69.32
	h. Bar Cutter, Single Phase	1	0.03	1,758.00	46.68
	Minor Tools 5% of Labor				86.19
	Sub-total for B			P	25,570.45
C.	Total (A+B)				27,294.21
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	75.24	kg.	47.00	3,536.28
	b. Curing Compound	66.12	L	48.00	3,173.76
	c. Asphalt Sealant	27.36	L	100.00	2,736.00
	d. Steel Forms (Rental)	104.88	m	60.00	6,292.80
	e. Sand	18.81	cu.m.	2,501.75	47,057.92
	f. Gravel	34.20	cu.m.	1,801.75	61,619.85
	g. Cement	326.04	bag	309.00	100,746.36
	h. Concrete Saw (Diamond Blade 14" Ø)	0.03	pc.	8,000.00	273.60
	i. Pipe Sleeve, 2" Ø	1.78	m.	110.00	195.62
	j. Grease/Tar	0.34	L	135.00	46.17
	Sub-total for E			P	225,678.36
F.	Direct Cost (C + E)				252,972.57
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		25,297.26
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		20,237.81
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		14,925.38
J.	Total Unit Cost				1,374.71

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 404(1b) Reinforcing Steel Bar, Grade 60

Item No./Description:

kg.

Unit of Measurement:

Output per hour:

Quantity:

180.00
10,716.50

For RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.44	611.92	4,553.92
	b. Skilled Labor	2	7.44	443.20	6,596.60
	c. Unskilled Labor	8	7.44	342.24	20,375.64
Sub-total for A					P 31,526.16
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	3.72	1,758.00	6,541.53
	b. Bar Bender	1	3.72	2,812.00	10,463.47
	c. Cargo Truck (9-10 mt)	1	1.12	9,696.00	10,823.67
Sub-total for B					P 27,828.67
C.	Total (A+B)				59,354.82
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	225.05	kg.	78.00	17,553.63
	b. Reinforcing Steel Bar, Grade 60 (w/ 5% Wastage)	11,252.33	kg.	40.00	450,093.00
Sub-total for E					P 467,646.63
F.	Direct Cost (C + E)				527,001.45
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		52,700.15
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		42,160.12
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		31,093.09
J.	Total Unit Cost				60.93

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 405(1a3) Structural Concrete, Class "A"

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

1.40
128.50

For Lined Canal and RC8C

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	11.47	611.92	7,020.69
	b. Skilled Labor	4	11.47	443.20	20,339.71
	c. Unskilled Labor	8	11.47	342.24	31,412.74
	Installation/Removal of Formworks				
	a. Skilled Labor	4	11.47	443.20	20,339.71
	b. Unskilled Labor	8	11.47	342.24	31,412.74
Sub-total for A					P 110,525.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	11.47	1,376.00	15,787.14
	b. Concrete Vibrator	1	11.47	730.00	8,375.45
	c. Water Truck/Pump (16000 L)	1	1.15	19,600.00	22,487.50
	Minor Tools 5% of Labor Cost				5,526.28
Sub-total for B					P 52,176.37
C.	Total (A+B)				162,701.97
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	8,995.00	bd.ft.	56.00	125,930.00
	b. Marine Plywood (1/2" x 4' x 8') - 4 uses	205.60	pc.	865.00	44,461.00
	c. Assorted CWN (1 kg/100 bd.ft. of Lumber)	89.95	kg.	90.00	8,095.50
	d. Cement	1,220.75	bag	309.00	377,211.75
	e. Sand	64.25	cu.m.	2,501.75	160,737.44
	f. Gravel	128.50	cu.m.	1,801.75	231,524.88
Sub-total for E					P 947,960.56
F.	Direct Cost (C + E)				1,110,662.54
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		111,066.25
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		88,853.00
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		65,529.09
J.	Total Unit Cost				10,709.03

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusao Road, Isabela City, Basilan including Road Right of Way (ROW)
407(8) Concrete Structure (Lean Concrete)
cu.m.

Item No./Description:

1.40

10.00

Unit of Measurement:

Output per hour:

Quantity:

Lean Concrete for RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.89	611.92	546.36
	c. Skilled Labor	1	0.89	443.20	395.71
	d. Unskilled Labor	2	0.89	342.24	611.14
Sub-total for A					P 1,553.21
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	0.89	1,376.00	1,228.57
	b. Concrete Vibrator	1	0.89	730.00	651.79
	c. Water Truck/Pump (16000 L)	1	0.09	19,600.00	1,750.00
Sub-total for B					P 3,630.36
C.	Total (A+B)				5,183.57
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	95.00	bag	309.00	7,338.75
	b. Sand	5.00	cu.m.	2,501.75	3,127.19
	c. Gravel	10.00	cu.m.	1,801.75	18,017.50
Sub-total for E					P 28,483.44
F.	Direct Cost (C + E)				33,667.01
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		3,366.70
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		2,693.36
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,986.35
J.	Total Unit Cost				4,171.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusog Road, Isabela City, Basilan including Road Right of Way (ROW) 500(l)a3 R.C. Culvert Pipe, 910 mm. dia.

Item No./Description:

In.m.

Unit of Measurement:

1.00

Output per hour:

76.00

Quantity:

Class IV, Wall B, AASHTO M-170-85

A.	Labor	Designation	No. of Persons	No. of Days	Daily Rate	Amount
	a.	Const. Foreman	1	5.42	611.92	3,313.55
	b.	Skilled Labor	2	5.42	443.20	4,799.86
	c.	Unskilled Labor	4	5.42	342.24	7,412.92
Sub-total for A						
					P	15,526.32
B.	Equipment	Name and Capacity (2014 ACEL Rates)	No. of Equipment	No. of Days	Daily Rate	Amount
	a.	Backhoe	1	2.76	12,296.00	33,875.48
	b.	Plate Compactor	1	2.76	984.00	2,710.92
		Minor Tools 10% of Labor Cost				1,552.63
		Sub-total for B			P	38,139.03
C.	Total (A+B)					53,665.35
D.	Output/day	8.00	In.m./day			
E.	Materials	Name and Specifications	Quantity	Unit	Unit Cost	Amount
	a.	Cement	82.08	bag	309.00	25,362.72
	b.	Sand	4.64	cu.m.	2,501.75	11,598.11
	c.	Sand Bedding/Selected Sandy Soil	9.73	cu.m.	1,801.75	17,527.42
	d.	RC Pipes (910mm dia)	76.00	pc.	3,128.00	237,728.00
		Sub-total for E			P	292,216.26
F.	Direct Cost (C + E)					345,881.61
G.	Overhead, Contingencies and Miscellaneous	10% per D.O. 197, s. 2016				34,588.16
H.	Contractor's Profit(CP)	8% per D.O. 197, s. 2016				27,670.53
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016				20,407.02
J.	Total Unit Cost					5,638.78

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW) 505(5) Grouted Riprap, Class 'A' cu.m.

Item No./Description:

1.25

Unit of Measurement:

31.50

Output per hour:

Quantity:

For Headwall apron

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.15	611.92	1,927.55
	b. Skilled Labor	2	3.15	443.20	2,792.16
	c. Unskilled Labor	8	3.15	342.24	8,624.45
Sub-total for A					P 13,344.16
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	3.15	1,376.00	4,334.40
	b. Water Truck/Pump (16000 L)	1	0.16	19,600.00	3,087.00
	Minor Tools 5% of Labor				667.21
Sub-total for B					P 8,088.61
C.	Total (A+B)				21,432.76
D.	Output/day	10.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	94.50	bag	309.00	29,200.50
	b. Sand	7.88	cu.m.	2,501.75	19,701.28
	c. Gravel	0.47	cu.m.	1,801.75	851.33
	d. Weep Holes (PVC)	9.45	m.	110.00	1,039.50
	e. Filter Cloth	0.47	sq.m.	176.00	83.16
	f. Boulders (15 - 25 kg.)	33.08	cu.m.	1,606.75	53,143.26
	Miscellaneous 1% of Materials Cost				1,040.19
Sub-total for E					P 105,059.21
F.	Direct Cost (C + E)				126,491.98
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		12,649.20
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		10,119.36
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		7,463.03
J.	Total Unit Cost				4,975.35

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusao Road, Isabela City, Basilan including Road Right of Way (ROW)

Item No./Description:

506(1) Stone Masonry

Unit of Measurement:

cu.m.

Output per hour:

1.60

Quantity:

70.50

For headwall and wingwall

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.51	611.92	3,370.34
	b. Skilled Labor	2	5.51	443.20	4,882.13
	c. Unskilled Labor	8	5.51	342.24	15,079.95
Sub-total for A					P 23,332.42
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	5.51	1,376.00	7,578.75
	b. Water Truck/Pump (16000 L)	1	0.28	19,600.00	5,397.66
	c. Backhoe (Wheel Type 0.28 cu.m.)	1	0.55	12,296.00	6,772.41
	Minor Tools 10% of Labor				2,333.24
Sub-total for B					P 22,082.05
C.	Total (A+B)				45,414.47
D.	Output/day	12.80	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	387.75	bag	309.00	119,814.75
	b. Sand	21.15	cu.m.	2,501.75	52,912.01
	c. Gravel Fill	1.41	cu.m.	1,801.75	2,540.47
	d. Weep Holes (PVC)	21.15	m.	110.00	2,326.50
	e. Filter Cloth	1.06	sq.m.	176.00	186.12
	f. Boulders (15 - 25 kg.)	74.03	cu.m.	1,606.75	118,939.67
	Miscellaneous 1% of Materials Cost				2,967.20
Sub-total for E					P 299,686.71
F.	Direct Cost (C + E)				345,101.18
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		34,510.12
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		27,608.09
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		20,360.97
J.	Total Unit Cost				6,064.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right of Way (ROW)
612(1) ReflectORIZED Thermoplastic Pavement Markings (White)
sq.m.

Item No./Description:

25.00

Unit of Measurement:

1,051.00

Output per hour:

Quantity:

Designation		No. of Persons	No. of Days	Daily Rate	Amount	
A.	Labor					
	a. Const. Foreman	1	5.26	611.92	3,215.64	
	b. Skilled Labor	2	5.26	443.20	4,658.03	
	c. Unskilled Labor	6	5.26	342.24	10,790.83	
Sub-total for A					18,664.50	
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount	
B.	Equipment, (2014 ACEL Rates)					
	a. Cargo Truck/Delivery Truck (2-5 mt)	1	5.26	6,264.00	32,917.32	
	b. Applicator Machine	1	5.26	750.00	3,941.25	
	c. Kneading Machine	1	5.26	1,500.00	7,882.50	
	Minor Tools 10% of Labor				1,866.45	
Sub-total for B					46,607.52	
C.	Total (A+B)			P	65,272.02	
D.	Output/day	200.00 sq.m./day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount	
E.	Materials					
	a. Thermoplastic Paint (White)	341.58	bag	1,585.00	541,396.38	
	b. Glass Beads	34.68	bag	2,500.00	86,707.50	
	c. Primer	126.12	L	168.00	21,188.16	
	d. LPG (50 kg)	4.20	cyl.	4,250.00	17,867.00	
	e. LPG (12 kg)	2.10	cyl.	1,020.00	2,144.04	
	f. Calsumine	131.38	kg.	30.00	3,941.25	
	Miscellaneous 5% of Materials Cost				33,662.22	
Sub-total for E					706,906.54	
F.	Direct Cost (C + E)			P	772,178.56	
G.	Overhead, Contingencies and Miscellaneous	10% per D.O. 197, s. 2016				77,217.86
H.	Contractor's Profit(CP)	8% per D.O. 197, s. 2016				61,774.28
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016				45,558.54
J.	Total Unit Cost					910.30

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusog Road, Isabela City, Basilan including Road Right A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m.
 Item No./Description: L.S.
 Unit of Measurement: L.S.
 Output per hour: 1.00
 Quantity: For Government Field Office, fully furnished as shown on plans

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.00	611.92	4,895.36
	b. Mason	3	8.00	443.20	10,636.80
	c. Carpenter	3	8.00	443.20	10,636.80
	d. Laborer	6	8.00	342.24	16,427.52
Sub-total for A					42,596.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.00	-	-
	b. Water Truck	1	1.00	-	-
	Minor Tools 10% of Labor				4,259.65
Sub-total for B					4,259.65
C.	Total (A+B)			P	46,856.13
D.	Output/day	L.S./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
I. Earthworks (Excavation, Embankment, Bedding)					
	a. Gravel Bedding	3.50	cu.m.	1,801.75	6,306.13
	b. Selected Fill	10.00	cu.m.	763.75	7,637.50
	c. Soil Poisoning	2.50	L	2,100.00	5,250.00
II. Concrete Works (Footing, Columns, Beams & Slab on Grade)					
	a. Portland Cement	90.00	bag	309.00	27,810.00
	b. Crushed Gravel	21.00	cu.m.	1,801.75	37,836.75
	c. Washed Sand	18.00	cu.m.	2,501.75	45,031.50
III. Reinforcing Bars(Footing Columns, Beams, & Slabs on Grade)					
	a. Deformed Round Bar, Grade 40	435.00	kg.	47.00	20,445.00
	b. No. 16 GI Tie Wire	20.00	kg.	91.00	1,820.00
IV. Formworks (Columns & Beams)					
	a. Coco Lumber	400.00	bd.ft.	13.00	5,200.00
	b. Ordinary Plywood, 1/4"x4'x8'	18.00	pc.	403.00	7,254.00
	c. CWN, Assorted	5.00	kg.	90.00	450.00
V. Masonry Works (masonry walls & plastering)					
	a. CHB 6" thk	650.00	pc.	18.00	11,700.00
	b. Portland Cement	45.00	bag	309.00	13,905.00
	c. Washed Sand	8.00	cu.m.	2,501.75	20,014.00
	d. 10mm dia. X 6m RSB	65.00	kg.	47.00	3,055.00
	e. No. 16 GI Tie Wire	2.50	kg.	91.00	227.50
VI. Doors and Windows					
	a. D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90mx2.1m	2.00	set	2,018.52	4,037.04
	b. W-1, Jalousie window, 1.4m x 1.2m	2.00	set	1,310.40	2,620.80
	c. W-2, Jalousie window, 2.8m x 1.2m	2.00	set	2,620.80	5,241.60
Sub-total for E					225,841.82
Sub-total for E (I + II + III)					405,451.07
F.	Direct Cost (C + E)				452,307.19
G.	Overhead, Contingencies and Miscellaneous				45,230.72
H.	Contractor's Profit(CP)				36,184.58
I.	Value Added Tax (VAT)				26,686.12
J.	Total Unit Cost				560,408.61

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m. L.S.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

1.00

For Government Field Office, fully furnished as shown on plans

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
Sub-total for A				
			P	-
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
				-
Sub-total for B				
			P	-
C. Total (A+B)				-
D. Output/day	L.S./day			
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
VII. Steel Works				
a. 65 x 65 x 6mm. L	350.00	kg.	58.00	20,300.00
b. 50 x 50 x 6mm. L	250.00	kg.	58.00	14,500.00
c. 50 x 50 x 4mm. L	100.00	kg.	58.00	5,800.00
d. Purflins C- 150 x 50 x 3mm.	18.00	kg.	58.00	1,044.00
e. 16mm dia. Cross bracing	35.00	kg.	58.00	2,030.00
f. 16mm dia. Turn buckle	20.00	pc.	118.00	2,360.00
g. 12mm thk base plate	25.00	kg.	44.00	1,100.00
h. 10mm thk batten plate	15.00	kg	47.00	705.00
i. 10mm dia. Sag rod	10.00	kg.	58.00	580.00
j. 20mm dia. X 350 mm anchor bolts	10.00	pc.	36.00	360.00
k. Welding Rod	15.00	kg.	180.00	2,700.00
l. Primer, Zinc Chromate	5.00	gal.	531.00	2,655.00
VIII Roofing Works				
a. Pre-painted GI Roofing Sheet long span	55.00	sq.m.	562.00	30,910.00
b. Pre-painted ridge roll ga 24, 0.60m width	10.00	ln.m.	237.00	2,370.00
c. Pre-painted flashing, ga. 24	2.00	ln.m.	242.00	484.00
d. TeckscREW 1 1/2"	1,000.00	pc.	1.25	1,250.00
e. Roof Sealant	2.00	L	250.00	500.00
IX. Carpentry Works				
a. Rough Lumber, sun dried tanguile	500.00	bd.ft.	56.00	28,000.00
b. Plywood, ordinary 1/4" x 4' x 8'	30.00	pc.	403.00	12,090.00
c. Finishing Nails	5.00	kg.	126.00	630.00
d. Common Wire Nails	10.00	kg.	90.00	900.00
e. Wood Preservative Brown	5.00	L	430.00	2,150.00
Sub-total for E				
			P	133,418.00
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: National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan
 Item No./Description: Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right
 Unit of Measurement: A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m.
 Output per hour: L.S.
 Quantity: 1.00

For Government Field Office, fully furnished
as shown on plans

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A					
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B					
C.	Total (A+B)			P	-
D.	Output/day				-
Name and Specifications		L.S./day			
Materials		Quantity	Unit	Unit Cost	Amount
E.					
X. Electrical Works					
a.	2 x 40w Fluorescent lighting fixtures	5.00	set	1,030.00	5,150.00
b.	Porcelain Ceiling Outlet w/ female socket	2.00	pc	50.00	100.00
c.	Duplex Convenience outlet	3.00	pc	170.00	510.00
d.	two gang switch	3.00	pc	132.00	396.00
e.	3.5mm2 thw	3.00	roll	3,600.00	10,800.00
f.	8.00mm2 thw	25.00	m	69.33	1,733.25
g.	15mm dia. PVC pipe	20.00	pc	73.00	1,460.00
h.	15mm dia. PVC Coupling	25.00	pc	16.00	400.00
i.	15mm dia. PVC Elbow	25.00	pc	26.00	650.00
j.	15mm dia. PVC Clamp	55.00	pc	8.00	440.00
k.	20mm dia. RSC Pipe	4.00	pc	240.00	960.00
l.	20mm dia. RSC Coupling	3.00	pc	36.00	108.00
m.	20mm dia. RSC elbow	3.00	pc	30.00	90.00
n.	20mm dia. RSC Clamp	10.00	pc	18.00	180.00
o.	20mm dia. Service entrance cap	2.00	pc	100.00	200.00
p.	wire holder	2.00	pc	50.00	100.00
q.	utility box	7.00	pc	32.00	224.00
r.	octagonal box	8.00	pc	34.00	272.00
s.	electrical tape (big)	7.00	pc	31.00	217.00
t.	panel board (side main w/ braches)	2.00	set	1,627.00	3,254.00
XI. Plumbing Works					
a.	Water Closet (include. Fitting & Accessories)	1.00	set	8,280.00	8,280.00
b.	Lavatory (include fitting & Accessories)	1.00	set	7,200.00	7,200.00
c.	1/2" GI Pipe S-40	2.00	pc	500.00	1,000.00
d.	1/2" Water Faucet	2.00	pc	210.00	420.00
e.	1/2" Assorted Connector	8.00	pc	19.00	152.00
f.	4" PVC series 1000	1.00	pc	733.00	733.00
g.	2" PVC series 1000	1.00	pc	330.00	330.00
h.	4" PVC assorted Connector	6.00	pc	88.00	528.00
i.	2" PVC assorted Connector	8.00	pc	38.00	304.00
Sub-total for E				P	46,191.25
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: National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusao Road, Isabela City, Basilan includinga Road Right A.1.1(11) Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer

Item No./Description: L.S.

Unit of Measurement: L.S.

Output per hour: 1.00

Quantity:

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A					
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
C.	Total (A+B)			P	-
D.	Output/day	-	L.S./day		-
Name and Specifications					
E.	Materials	Quantity	Unit	Unit Cost	Amount
Office Equipment/Facilities & Supplies					
	Electric Desk Fan	1.00	unit	1,370.00	1,370.00
	Folding Beds, Good Quality	2.00	each	2,700.00	5,400.00
	pillows w/ pillow cases, fitted sheets and blanket	2.00	each	5,000.00	10,000.00
	Double burner gas stove (Gasul)	1.00	unit	3,700.00	3,700.00
	10 cups Rice Cooker	1.00	unit	2,500.00	2,500.00
	Aluminum Cookware	1.00	set	3,500.00	3,500.00
	Plate, Glass, Spoon and fork	1.00	dozen	2,000.00	2,000.00
	6 seater dining table	1.00	each	2,800.00	2,800.00
	Monoblock w/ Backrest chair	2.00	dozen	2,500.00	5,000.00
	Plastic Pail & Basin	2.00	pc.	250.00	500.00
	White Board	1.00	Unit	3,000.00	3,000.00
	Bond Paper (Long)	20.00	ream	300.00	6,000.00
	Bond Paper (Short)	20.00	ream	270.00	5,400.00
	Yellow Pad	6.00	pad	35.00	210.00
	White Board Marker	10.00	pc.	75.00	750.00
	Sign Pen (assorted color)	2.00	dozen	580.00	1,160.00
	Ballpen (assorted color)	4.00	box	180.00	720.00
	Mechanical Pencil	6.00	unit	350.00	2,100.00
	Pencil Lead, No. 5	4.00	box	145.00	580.00
	Puncher	1.00	unit	250.00	250.00
	Staple Pad w/ wire	2.00	unit	275.00	550.00
	Cutter Blade	2.00	box	240.00	480.00
	Scotch Tape	10.00	roll	45.00	450.00
	Brown Envelop	7.00	dozen	125.00	875.00
	Folder, Long	7.00	dozen	85.00	595.00
	Folder, Short	7.00	dozen	70.00	490.00
	Data File Folder	12.00	pc.	85.00	1,020.00
	Digital Camera	1.00	set	9,089.41	9,089.41
	Cellphone	1.00	set	10,000.00	10,000.00
Lighting/Water Fixtures					
	a. Electrical Bill	8.40	mos.	3,000.00	25,200.00
	b. Water Bill	8.40	mos.	1,500.00	12,600.00
	c. LPG (11 kg)	8.40	mos.	1,000.00	8,400.00
Sub-total for E					
F.	Direct Cost (C + E)			P	126,689.41
G.	Overhead, Contingencies and Miscellaneous				126,689.41
H.	Contractor's Profit(CP)		per D.O. 197, s. 2016		-
I.	Value Added Tax (VAT)		8% per D.O. 197, s. 2016		10,135.15
J.	Total Unit Cost		5% per D.O. 197, s. 2016		6,841.23
					143,665.79

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan includinga Road Right

Item No./Description:

B.5 Project Billboard/Signboard

Unit of Measurement:

each

Output per hour:

2.00

Quantity:

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.00	611.92	1,223.84
	b. Skilled Labor	1	2.00	443.20	886.40
	c. Unskilled Labor	2	2.00	342.24	1,368.96
Sub-total for A					3,479.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
C.	Total (A+B)				3,479.20
D.	Output/day	-	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ordinary Plywood 1/2" thk. x 4' x 8'	2.00	pc.	796.00	1,592.00
	b. Tarpaulin (4' x 8')	2.00	pc.	1,000.00	2,000.00
	c. Assorted Lumber	100.00	bd.ft.	56.00	5,600.00
	d. Assorted CW Nails	2.00	kg.	90.00	180.00
Sub-total for E					9,372.00
F.	Direct Cost (C + E)			P	12,851.20
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,285.12
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,028.10
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		758.22
J.	Total Unit Cost				7,961.32

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan includinga Road Right B.7 Occupation Safety and Health Program

Item No./Description: month

Unit of Measurement: month

Output per hour: 8.40

Quantity:

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practioner	1	252.00	611.92	154,203.84
	b. First Aider	1	126.00	443.20	55,843.20
	c. Flagman (2 per shift)	6	252.00	342.24	517,466.88
Sub-total for A					727,513.92
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Warning Signs and Barricades				45,000.00
C.	Total (A+B)			P	45,000.00
D.	Output/day	L.S./day			772,513.92
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Rubber Boots (Long w/ steel toe, Black)	24.00	pair	400.00	9,600.00
	b. Working Gloves (Maong Material)	24.00	pair	15.00	360.00
	c. Rain Coats (Reinforced, Hip Length)	24.00	pc.	100.00	2,400.00
	d. Safety Hats	24.00	pc.	600.00	14,400.00
	Sub-total for E			P	26,760.00
F.	Direct Cost (C + E)				799,273.92
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		63,941.91
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		43,160.79
J.	Total Unit Cost				107,901.98

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan

Item No./Description: Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right

Unit of Measurement: A.1.2(5) Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer

Output per hour: month

Quantity: 8.40

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	252	422.32	106,424.64
Sub-total for A					P 106,424.64
Name and Capacity		No. of Equipment	No. of Months	Monthly Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
C.	Total (A+B)			P	-
D.	Output/day	-	L.S./day		106,424.64
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Diesel	5,040.00	L	50.00	252,000.00
	b. Spare Parts	1.00	L.S.	50,000.00	50,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	37,800.00	37,800.00
	d. Miscellaneous	1.00	L.S.	45,000.00	45,000.00
Sub-total for E					P 384,800.00
F.	Direct Cost (C + E)				491,224.64
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		24,561.23
J.	Total Unit Cost				61,403.08

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Malusao Road, Isabela City, Basilan including Road Right Mobilization & Demobilization

Item No./Description:

L.S.

Unit of Measurement:

1.00

Output per hour:

Quantity:

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A					
P					
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
a.	Low Bed Trailer	1	2.00	34,043.00	68,086.00
b.	Water Truck	2	4.00	19,600.00	156,800.00
c.	Backhoe	2	4.00	12,296.00	98,368.00
d.	Bulldozer	2	4.00	27,032.00	216,256.00
e.	Dumptruck	4	4.00	11,360.00	181,760.00
f.	Payloader	2	4.00	13,864.00	110,912.00
Sub-total for B					
P					
C.	Total (A+B)				832,182.00
D.	Output/day	L.S./day			832,182.00
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					
P					
F.	Direct Cost (C + E)				832,182.00
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit(CP)		per D.O. 197, s. 2016		-
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		41,609.10
J.	Total Unit Cost				873,791.10

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

National Roads and Bridges-National Roads-Construction/Repair/Rehabilitation/Improvement of Various Infrastructure including Local Projects- Road Widening along Basilan Circumferential Road (BCR) Isabela-Maluso Road, Isabela City, Basilan including Road Right B.4(1) Construction Survey & Staking

Item No./Description:

km.

Unit of Measurement:

Output per hour:

Quantity:

0.04
3,500

	Designation	No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Field Works				
	a. Geodetic Engineer	1	10.94	833.31	9,114.33
	b. Skilled Laborer	3	10.94	443.20	14,542.50
	c. Laborer	3	10.94	342.24	11,229.75
	For Office Works				
	a. Geodetic Engineer	1	32.81	833.31	27,342.98
	b. Skilled Laborer	2	32.81	443.20	29,085.00
	Sub-total for A				
				P	91,314.56
B.	Equipment, (2014 ACEL Rates)	No. of Equipment	No. of Days	Daily Rate	Amount
	a. Total Station w/ complete accessories	1	10.94	800.00	8,750.00
	Minor Tools				9,131.46
	10% of Labor				
	Sub-total for B			P	17,881.46
C.	Total (A+B)				109,196.02
D.	Output/day	0.32	km./day		
E.	Name and Specifications	Quantity	Unit	Unit Cost	Amount
	Materials				
	a. Standard Stake Plan (800 mm x 910 mm)	40.00	pc	400.00	16,000.00
	b. Blue Printing	200.00	pc	15.00	3,000.00
	Miscellaneous				950.00
	5% of Materials Cost				
	Sub-total for E			P	19,950.00
F.	Direct Cost (C + E)				129,146.02
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		12,914.60
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		10,331.68
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		7,619.62
J.	Total Unit Cost				45,717.69