

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	Date : April 11, 2018
Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - 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 :		204 Calendar Days	
NATIONAL ROAD		Desirable Starting Date :		upon approval	
		Mode of Implementation :		by contract	
PROJECT DESCRIPTION :		Station Limits:		Length	
Scope of Work : Road Widening		1	2+000.00 - 5+000.00	3,000.00	
Road Width : 6.70 m.					
Roadbed Width : 12.00 m.					
Subbase Course : 0.30 m. thk.					
Surface Course : 0.15 m. thk.					
MINIMUM EQUIPMENT REQUIREMENT :		TECHNICAL PERSONNEL REQUIRED :			
Description	No.	Description	No.	Description	No.
Dump Truck	12	Water Pump	1	Project Engineer	1
Transit Mixer	4	Concrete Screeder	1	Materials Engineer	1
Bulldozer	2	Concrete Vibrator	2	Geometric Surveyor	1
Backhoe	3	Concrete Cutter	2	Foreman	1
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1
Road Roller	2	Bar Bender	1	Mason	12
Payloader	4	One Bagger Mixer	2	Carpenter	8
Water Truck	2	Batching Plant	1	Laborers (Skilled)	20
Water Tank	2	Plate Compactor	1	Laborers (Unskilled)	30
Kneading Machine	1	Cargo Truck	1	Safety Practitioner	1
Applicator Machine	1				
ESTIMATED COST OF PROPOSED WORK					
ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST
					TOTAL UNIT COST
PART A - FACILITIES FOR THE ENGINEER					
A.1.1(3)	Construction of Field Office for the Engineer	0.55	L.S.	1.00	460,867.21
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.35	L.S.	1.00	288,740.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.27	month	6.80	33,658.72
PART B - OTHER GENERAL REQUIREMENTS					
B.4(1)	Construction Survey & Staking	0.14	km.	3.00	118,534.09
B.5	Project Billboard/Signboard	0.02	each	2.00	13,249.20
B.7	Occupation Safety and Health Program	0.29	month	6.80	239,588.64
B.9	Mobilization & Demobilization	0.84	L.S.	1.00	696,735.00
PART C - EARTHWORKS					
100(3)a2	Individual Removal of Trees	0.46	each	232.00	385,743.21
100(4)	Individual Removal of Trees	0.04	each	2.00	36,984.92
101(1)	Removal of Structures & Obstructions	1.51	l. s.	1.00	1,255,179.40
101(2)	Removal of Actual Structures/Obstruction	0.00	each	8.00	2,894.05
101(3)b2	Removal of Actual Structures/Obstruction	0.01	sqm	50.50	6,665.07
101(4)a1	Removal of Actual Structures/Obstruction	0.02	ln.m.	40.00	17,793.64
102(2)	Surplus Common Excavation	4.18	cu.m.	24,450.50	3,483,095.98
103(1)a	Structure Excavation	0.16	cu.m.	581.50	133,216.71
103(3)	Foundation Fill	0.04	cu.m.	10.00	31,851.48
103(6)a	Pipe Culverts and Drain Excavation	0.03	cu.m.	110.50	25,427.78
104(1)a	Embankment from Roadway Excavation	0.86	cu.m.	3,093.00	713,135.16
105(1)a	Subgrade Preparation	0.59	sq.m.	90,749.00	491,322.90

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course	29.50	cu.m.	11,489.50	24,588,937.46	2,140.12
PART E - SURFACE COURSES						
300(1)	Gravel Surface Course	3.01	cu.m.	1,240.00	2,511,151.90	2,025.12
311(1)a	Portland Cement Concrete Pavement	1.89	sq.m.	1,485.00	1,576,498.72	1,061.62
311(1)e1	Portland Cement Concrete Pavement	46.82	sq.m.	20,150.00	39,016,755.94	1,936.32
PART F - BRIDGE CONSTRUCTION						
404(1)a	Reinforcing Steel	0.67	kg.	11,864.00	561,506.97	47.33
405(1)a3	Structural Concrete, Class "A"	3.07	cu.m.	293.00	2,558,791.92	8,733.08
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
500(1)b3	Pipe Culverts	0.38	ln.m.	68.00	313,493.01	4,610.19
500(1)b4	Pipe Culverts	0.03	ln.m.	7.00	23,614.60	3,373.51
505(2)a	Grouted Riprap, Class "A"	0.08	cu.m.	16.50	64,253.84	3,894.17
506(1)	Stone Masonry	0.33	cu.m.	59.00	274,744.09	4,656.68
PART H - MISCELLANEOUS STRUCTURES						
611(1)	Trees, Furnishing & Transplanting	3.10	each	301.00	2,586,702.20	8,593.70
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	0.76	sq.m.	832.00	633,030.05	760.85
TOTAL				100.00	P	83,339,384.42

NAME OF PROJECT :

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

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	1.09	1,310,023.74
A.2. Equipment Expenses	11.85	14,223,652.25
A.3. Materials	56.50	67,805,708.44
SUB-TOTAL (DIRECT COST)	69.45	P 83,339,384.42
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	6.82	8,188,544.15
B.2. Profit (8 % Max. of D.C.)	5.49	6,593,101.61
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	4.09	4,906,051.51
SUBTOTAL (CONTRACT COST)	85.86	P 103,027,081.70
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	4,200,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW	10.64	12,772,918.30
4. Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	P 120,000,000.00

Prepared :


ANTONIELLE T. DURAN
Engineer II

Checked :


JERALD R. BARRERA
Engineer II

Submitted :


LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval :


CAYAMOMBAO D. DIA
Assistant Regional Director

Approved :


JORGE U. SEBASTIAN JR. CESO III
Regional Director

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso

2+000.00	to	5+000.00
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Contract Duration : 204 CD

[illegible]

BELEN A. SAPALLIDA
Head, BAC Technical Working Group

TEORCIO B. SOLAMILLO
Chief, Construction Division

CAVAMOMBAO D. DIA
Assistant, Regional Director

JORGE U. REBASALTA JR.
Regional Director

Prepared by :

Submitted by :

Recommending Approval:

Approved by :

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %	TOTAL MARK-UPS	VALUE	VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
					OCM	PROFIT	%				(13)
					(5) x (8)			5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES											
	TOTAL OF PART F			3,120,298.89				561,653.80	184,097.83	745,751.43	3,866,050.32
500(1)b3	Pipe Culverts	68.00	ln.m.	313,493.01	10.00	8.00	18.00	56,428.74	18,496.09	74,924.83	388,417.84
500(1)b4	Pipe Culverts	7.00	ln.m.	23,614.60	10.00	8.00	18.00	4,250.63	1,393.26	5,643.89	29,258.49
505(2)a	Grouted Riprap, Class "A"	16.50	cu.m.	64,253.84	10.00	8.00	18.00	11,565.69	3,790.98	15,356.67	79,610.50
506(1)	Stone Masonry	59.00	cu.m.	274,744.09	10.00	8.00	18.00	49,453.94	16,209.90	65,663.84	340,407.92
	TOTAL OF PART G			676,105.54				121,699.00	39,890.23	161,589.22	837,694.76
PART H - MISCELLANEOUS STRUCTURES											
611(1)	Trees, Furnishing & Transplanting	301.00	each	2,586,702.20	10.00	8.00	18.00	465,606.40	152,615.43	618,221.82	3,204,924.02
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	832.00	sq.m.	633,030.05	10.00	8.00	18.00	113,945.41	37,348.77	151,294.18	784,324.24
	TOTAL OF PART H			3,219,732.25				579,551.80	189,964.20	769,516.01	3,989,248.26
	TOTAL			83,839,384.42				14,781,645.76	4,906,051.51	19,687,697.27	103,027,081.70

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of A.1.1(3) Construction of Field Office for the Engineer L.S.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

1.00

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

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.00	611.92	4,895.36
	b. Mason	3	8.00	443.20	10,636.80
	c. Carpenter	3	8.00	443.20	10,636.80
	d. Laborer	6	8.00	342.24	16,427.52
Sub-total for A					
				P	42,596.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.00	1,376.00	8,256.00
	b. Water Truck	1	1.00	19,600.00	19,600.00
	Minor Tools				4,259.65
Sub-total for B					
				P	32,115.65
C.	Total (A+B)				74,712.13
D.	Output/day	- L.S./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	I. Earthworks (Excavation, Embankment, Bedding)				
	a. Gravel Bedding	3.50	cu.m.	1,777.61	6,221.64
	b. Selected Fill	10.00	cu.m.	396.35	3,963.50
	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	285.00	25,650.00
	b. Crushed Gravel	21.00	cu.m.	1,777.61	37,329.81
	c. Washed Sand	18.00	cu.m.	2,477.61	44,596.98
	III. Reinforcing Bars(Footing Columns, Beams, & Slabs on Grade)				
	a. Deformed Round Bar, Grade 40	435.00	kg.	38.00	16,530.00
	b. No. 16 GI Tie Wire	20.00	kg.	90.00	1,800.00
	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.	525.00	9,450.00
	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	285.00	12,825.00
	c. Washed Sand	8.00	cu.m.	2,477.61	19,820.88
	d. 10mm dia. X 6m RSB	65.00	kg.	38.00	2,470.00
	e. No. 16 GI Tie Wire	2.50	kg.	90.00	225.00
	VI. Doors and Windows				
	a. D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90mx2.1m	2.00	set	1,153.44	2,306.88
	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					
				P	213,652.09
Sub-total for E (I + II + III)					
				P	386,155.09
F.	Direct Cost (C + E)				460,867.21
G.	Overhead, Contingencies and Miscellaneous	10% per D.O. 197, s. 2016			
					46,086.72
H.	Contractor's Profit(CP)	8% per D.O. 197, s. 2016			
					36,869.38
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016			
					27,191.17
J.	Total Unit Cost				571,014.48

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of A.I.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.	48.00	16,800.00
b.	50 x 50 x 6mm. L	250.00	kg.	48.00	12,000.00
c.	50 x 50 x 4mm. L	100.00	kg.	48.00	4,800.00
d.	Purlins C- 150 x 50 x 3mm.	18.00	kg.	48.00	864.00
e.	16mm dia. Cross bracing	35.00	kg.	38.00	1,330.00
f.	16mm dia. Turn buckle	20.00	pc.	165.00	3,300.00
g.	12mm thk base plate	25.00	kg.	47.00	1,175.00
h.	10mm thk batten plate	15.00	kg.	47.00	705.00
i.	10mm dia. Sag rod	10.00	kg.	38.00	380.00
j.	20mm dia. X 350 mm anchor bolts	10.00	pc.	42.00	420.00
k.	Welding Rod	15.00	kg.	169.00	2,535.00
l.	Primer, Zinc Cromate	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.	780.00	7,800.00
c.	Pre-painted flashing, ga. 24	2.00	ln.m.	850.00	1,700.00
d.	Teckscrow 1 1/2"	1,000.00	pc.	1.25	1,250.00
e.	Roof Sealant	2.00	L	250.00	500.00
IX. Carpentry Works					
a.	Rough Lumber, sun dried tanguile	500.00	bd.ft.	37.00	18,500.00
b.	Plywood, ordinary 1/4" x 4' x 8'	30.00	pc.	525.00	15,750.00
c.	Finishing Nails	5.00	kg.	100.00	500.00
d.	Common Wire Nails	10.00	kg.	90.00	900.00
e.	Wood Preservative Brown	5.00	L	400.00	2,000.00
Sub-total for E				P	126,774.00
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:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan

Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of Way

Item No./Description:

A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m.

Unit of Measurement:

L.S.

Output per hour:

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)				
D.	Output/day	L.S./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
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.	3.5mm ² thw	3.00	roll	3,600.00	10,800.00
f.	8.00mm ² thw	25.00	m	70.00	1,750.00
g.	15mm dia. PVC pipe	20.00	pc	73.00	1,460.00
h.	15mm dia. PVC Coupling	25.00	pc	5.00	125.00
i.	15mm dia. PVC Elbow	25.00	pc	21.00	525.00
j.	15mm dia. PVC Clamp	55.00	pc	8.00	440.00
k.	20mm dia. RSC Pipe	4.00	pc	240.00	960.00
l.	20mm dia. RSC Coupling	3.00	pc	9.00	27.00
m.	20mm dia. RSC Elbow	3.00	pc	30.00	90.00
n.	20mm dia. RSC Clamp	10.00	pc	18.00	180.00
o.	20mm dia. Service entrance cap	2.00	pc	58.00	116.00
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	20.00	160.00
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	77.00	462.00
i.	2" PVC assorted Connector	8.00	pc	56.00	448.00
Sub-total for E					
F.	Direct Cost (C + E)			P	45,729.00
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:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of A.1.1(11) Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the

Item No./Description:

Field Engineer

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					
P					
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	L.S./day			-
Name and Specifications					
E.	Materials	Quantity	Unit	Unit Cost	Amount
Office Equipment/Facilities & Supplies					
Electric Desk Fan		2.00	unit	1,370.00	2,740.00
Folding Beds, Good Quality		2.00	each	2,700.00	5,400.00
pillows w/ pillow cases, fitted sheets and blanket		2.00	each	5,000.00	10,000.00
Double burner gas stove (Gasul)		1.00	unit	3,700.00	3,700.00
10 cups Rice Cooker		1.00	unit	2,500.00	2,500.00
Various Office Supply		1.00	L.S.	45,000.00	45,000.00
(Folders, Bond Paper, Yellow Pads, Ball Pens, Pencil, Envelopes, etc.)					
Kitchenware		1.00	L.S.	30,000.00	30,000.00
(Plates, Spoons & Forks, Glasses, etc.)					
Dining Table		1.00	set	8,000.00	8,000.00
Digital Camera		2.00	set	12,000.00	24,000.00
Cellphone		4.00	set	15,000.00	60,000.00
Desktop Computer		1.00	set	60,000.00	60,000.00
Lighting/Water Fixtures					
a. Electrical Bill		6.80	mos.	3,000.00	20,400.00
b. Water Bill		6.80	mos.	1,500.00	10,200.00
c. LPG (11 kg)		6.80	mos.	1,000.00	6,800.00
Sub-total for E					
F.	Direct Cost (C + E)			P	288,740.00
G.	Overhead, Contingencies and Miscellaneous				288,740.00
H.	Contractor's Profit(CP)	per D.O. 197, s. 2016			-
I.	Value Added Tax (VAT)	8% per D.O. 197, s. 2016			23,099.20
J.	Total Unit Cost	5% per D.O. 197, s. 2016			15,591.96
					327,431.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basitan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of A.1.2(5) Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer month

Item No./Description:

Unit of Measurement:

Output per hour:

6.80

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	204	422.32	86,153.28
Sub-total for A					86,153.28
Name and Capacity					
B.	Equipment, (2014 ACEL Rates)	No. of Equipment	No. of Months	Monthly Rate	Amount
Sub-total for B					-
C.	Total (A+B)			P	86,153.28
D.	Output/day	L.S./day			
Name and Specifications					
E.	Materials	Quantity	Unit	Unit Cost	Amount
	a. Diesel	2,040.00	L	31.00	63,240.00
	b. Spare Parts	1.00	L.S.	40,000.00	40,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	9,486.00	9,486.00
	d. Miscellaneous	1.00	L.S.	30,000.00	30,000.00
Sub-total for E					142,726.00
F.	Direct Cost (C + E)			P	228,879.28
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	11,443.96
J.	Total Unit Cost				35,341.65

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

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

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

0.04
3,000

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Field Works				
	a. Geodetic Engineer	1	9.38	833.31	7,812.28
	b. Skilled Laborer	3	9.38	443.20	12,465.00
	c. Laborer	3	9.38	342.24	9,625.50
	For Office Works				
	a. Geodetic Engineer	1	28.13	833.31	23,436.84
	b. Skilled Laborer	2	28.13	443.20	24,930.00
Sub-total for A					P 78,269.63
Name and Capacity		No. of Equipment	No. of Days	Unit Cost	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories Minor Tools 10% of Labor	1	9.38	800.00	7,500.00 7,826.96
	Sub-total for B			P	15,326.96
C.	Total (A+B)				93,596.59
D.	Output/day	0.32	km./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Standard Stake Plan (800 mm x 910 mm)	50.00	pc	400.00	20,000.00
	b. Blue Printing	250.00	pc	15.00	3,750.00
	Miscellaneous 5% of Materials Cost				1,187.50
	Sub-total for E			P	24,937.50
F.	Direct Cost (C + E)				118,534.09
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		11,853.41
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		9,482.73
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		6,993.51
J.	Total Unit Cost				48,954.58

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of B.5 Project Billboard/Signboard

Item No./Description:

Unit of Measurement: each

Output per hour:

Quantity:

2.00

Per D.O. 141, s. 2016

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.00	611.92	1,223.84
	b. Skilled Labor	1	2.00	443.20	886.40
	c. Unskilled Labor	2	2.00	342.24	1,368.96
Sub-total for A					P 3,479.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Sub-total for B			P	-
C.	Total (A+B)				3,479.20
D.	Output/day	-	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ordinary Plywood 1/2" thk. x 4' x 8'	2.00	pc.	995.00	1,990.00
	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					P 9,770.00
F.	Direct Cost (C + E)				13,249.20
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,324.92
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,059.94
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		781.70
J.	Total Unit Cost				8,207.88

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

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

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

B.7 Occupation Safety and Health Program

month

6.80

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practitioner	1	102.00	611.92	62,415.84
	b. First Aider	1	204.00	443.20	90,412.80
Sub-total for A					P 152,828.64
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Warning Signs and Barricades				60,000.00
Sub-total for B					P 60,000.00
C.	Total (A+B)			P	212,828.64
D.	Output/day	L.S./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Rubber Boots (Long w/ steel toe, Black)	24.00	pair	400.00	9,600.00
	b. Working Gloves (Maong Material)	24.00	pair	15.00	360.00
	c. Rain Coats (Reinforced, Hip Length)	24.00	pc.	100.00	2,400.00
	d. Safety Hats	24.00	pc,	600.00	14,400.00
Sub-total for E					P 26,760.00
F.	Direct Cost (C + E)			P	239,588.64
G.	Overhead, Contingencies and Miscellaneous	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	39,954.93			

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local
Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan
Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of
B.9 Mobilization & Demobilization
L.S.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

1.00

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)				
	a. Low Bed Trailer	1	5.00	34,043.00	170,215.00
	b. Water Truck	1	5.00	19,600.00	98,000.00
	c. Backhoe	2	5.00	12,296.00	122,960.00
	d. Bulldozer	1	5.00	27,032.00	135,160.00
	e. Dump Truck	3	5.00	11,360.00	170,400.00
Sub-total for B					
C.	Total (A+B)			P	696,735.00
D.	Output/day	-	L.S./day		696,735.00
Name and Specifications					
E.	Materials	Quantity	Unit	Unit Cost	Amount
Sub-total for E					
F.	Direct Cost (C + E)			P	-
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		696,735.00
H.	Contractor's Profit (CP)		per D.O. 197, s. 2016		-
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		34,836.75
J.	Total Unit Cost				731,571.75

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 100(3)a2 Individual Removal of Trees each

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

1.00
232.00

*Existing Trees within Road Improvement
(Mahogany Tree, 500mm dia)*

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	19.43	611.92	11,889.61
	b. Skilled Labor	1	19.43	443.20	8,611.38
	c. Unskilled Labor	2	19.43	342.24	13,299.45
Sub-total for A					
				P	33,800.43
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	14.50	15,984.00	231,768.00
	b. Dump Truck (12 cu.yd.)	1	9.57	11,360.00	108,715.20
	c. Chain Saw	1	9.57	602.88	5,769.56
	Minor Tools 5% of Labor Cost				1,690.02
Sub-total for B					
				P	347,942.78
C.	Total (A+B)				381,743.21
D.	Output/day	8.00	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Rope, 1" dia - 5 uses	20	m	200.00	4,000.00
Sub-total for E					
				P	4,000.00
F.	Direct Cost (C + E)				385,743.21
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		38,574.32
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		30,859.46
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		22,758.85
J.	Total Unit Cost				2,060.07

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 100(4) Individual Removal of Trees

Item No./Description:

Unit of Measurement: each

Output per hour:

1.00
2.00

*Existing Trees within Road Improvement
(Acacia Tree, 1.00m & 1.50m)*

A.	Labor	Designation	No. of Persons	No. of Days	Daily Rate	Amount
	a.	Const. Foreman	1	1.67	611.92	1,020.38
	b.	Skilled Labor	1	1.67	443.20	739.04
	c.	Unskilled Labor	2	1.67	342.24	1,141.37
Sub-total for A						2,900.78
B.	Equipment	Name and Capacity (2014 ACEL Rates)	No. of Equipment	No. of Days	Daily Rate	Amount
	a.	Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	1.25	15,984.00	19,980.00
	b.	Dump Truck (12 cu.yd.)	1	0.83	11,360.00	9,457.20
	c.	Chain Saw	1	0.83	602.88	501.90
		Minor Tools 5% of Labor Cost				145.04
Sub-total for B						30,084.14
C.	Total (A+B)				P	32,984.92
D.	Output/day	8.00	each/day			
E.	Materials	Name and Specifications	Quantity	Unit	Unit Cost	Amount
	a.	Rope, 1" dia - 5 uses	20	m	200.00	4,000.00
Sub-total for E						4,000.00
F.	Direct Cost (C + E)					36,984.92
G.	Overhead, Contingencies and Miscellaneous					3,698.49
H.	Contractor's Profit(CP)					2,958.79
I.	Value Added Tax (VAT)					2,182.11
J.	Total Unit Cost					22,912.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 101(1) **Removal of Structures & Obstructions**

Item No./Description: I. s.

Unit of Measurement:

Output per hour:

Quantity:

1.00

Removal of Concrete & Wooden House, Stores, Fence, & other like structures

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	30.00	611.92	18,357.60
	b. Skilled Labor	1	30.00	443.20	13,296.00
	c. Unskilled Labor	2	30.00	342.24	20,534.40
Sub-total for A					P 52,188.00
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 cu.m.)	1	30.00	15,984.80	479,544.00
	b. Backhoe (0.80 cu.m.) - for loading	1	30.00	12,296.00	368,880.00
	c. Dump Truck (12 cu. yd)	1	30.00	11,360.00	340,800.00
	d. Cutting Outfit	1	30.00	363.60	10,908.00
	Minor Tools 5% of Labor Cost				2,609.40
Sub-total for B					P 1,202,741.40
C.	Total (A+B)				1,254,929.40
D.	Output/day	each/day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	0.1	set	2,500.00	250.00
Sub-total for E					P 250.00
F.	Direct Cost (C + E)				1,255,179.40
G.	Overhead, Contingencies and Miscellaneous	10% per D.O. 197, s. 2016			125,517.94
H.	Contractor's Profit(CP)	8% per D.O. 197, s. 2016			100,414.35
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016			74,055.58
J.	Total Unit Cost				1,555,167.28

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 101(2) Removal of Actual Structures/Obstruction

Item No./Description:

Unit of Measurement: each

Output per hour:

Quantity:

10.00 cu.m./hr.
8.00 each
8.64 cu.m.

Removal of Existing Headwall (0.30m x 1.80m x 2.00 m.)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.11	611.92	66.09
	b. Unskilled Labor	2	0.11	342.24	73.92
Sub-total for A					140.01
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 cu.m.)	1	0.05	15,984.80	863.18
	b. Backhoe (0.80 cu.m.) - for loading	1	0.05	12,296.00	663.98
	c. Dump Truck (12 cu.yd.)	1	0.11	11,360.00	1,226.88
Sub-total for B					2,754.04
C.	Total (A+B)				2,894.05
D.	Output/day	80.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					-
F.	Direct Cost (C + E)			P	2,894.05
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		289.41
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		231.52
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		170.75
J.	Total Unit Cost				448.22

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 101 (3)b2 Removal of Actual Structures/Obstruction

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

35.00
50.50

sqm

Existing PCCP (Width = 6.70m)

A.	Labor	Designation	No. of Persons	No. of Days	Daily Rate	Amount
	a.	Const. Foreman	1	0.18	611.92	110.36
	b.	Unskilled Labor	2	0.18	342.24	123.45
Sub-total for A						
				P		233.82
B.	Equipment	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
		Equipment, (2014 ACEL Rates)				
	a.	Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	0.18	15,984.80	2,882.97
	b.	Payloader (1.50 cu.m.), LX80-2C	1	0.18	13,864.00	2,500.47
	c.	Dump Truck (12 cu.yd.)	1	0.09	11,360.00	1,024.43
		Minor Tools 10% of Labor Cost				23.38
		Sub-total for B			P	6,431.25
C.	Total (A+B)					6,665.07
D.	Output/day	280.00	cu.m./day			
E.	Materials	Name and Specifications	Quantity	Unit	Unit Cost	Amount
		Sub-total for E			P	-
F.	Direct Cost (C + E)					6,665.07
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016		666.51
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016		533.21
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016		393.24
J.	Total Unit Cost					163.53

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 101(4)a1 Removal of Actual Structures/Obstruction

Item No./Description:

Unit of Measurement: In.m.

Output per hour:

Quantity:

5.00
40.00

Existing RCPC (610 mm.)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.00	611.92	611.92
	b. Unskilled Labor	2	1.00	342.24	684.48
Sub-total for A					P 1,296.40
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	1.00	12,296.00	12,296.00
	b. Boom Truck (2 - 5 mt.)	1	0.50	8,143.20	4,071.60
	Minor Tools 10% of Labor Cost				129.64
	Sub-total for B			P	16,497.24
C.	Total (A+B)				17,793.64
D.	Output/day	40.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Sub-total for E			P	-
F.	Direct Cost (C + E)				17,793.64
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,779.36
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,423.49
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,049.82
J.	Total Unit Cost				551.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 102(2) Surplus Common Excavation
cu.m.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

60.00

24,450.50

For Disposal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	50.94	611.92	31,170.31
	b. Unskilled Labor	2	50.94	342.24	34,866.41
Sub-total for A					66,036.73
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment. (2014 ACEL Rates)				
	a. Bulldozer, D6H SERIES II PSDS/DD	1	50.94	27,032.00	1,376,970.66
	b. Payloader (1.50 cu.m.)	1	50.94	13,864.00	706,211.94
	c. Payloader (1.50 cu.m.) - at disposal area	1	12.73	13,864.00	176,552.99
	d. Dump Truck (12 cu.yd.)	2	50.94	11,360.00	1,157,323.67
Sub-total for B					3,417,059.25
C.	Total (A+B)			P	3,483,095.98
D.	Output/day	480.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					-
F.	Direct Cost (C + E)			P	3,483,095.98
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		348,309.60
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		278,647.68
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		205,502.66
J.	Total Unit Cost				176.50

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local
Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan
Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of
103(1)a Structure Excavation
cu.m.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

20.00

581.50

For Lined Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.63	611.92	2,223.95
	b. Unskilled Labor	3	3.63	342.24	3,731.49
Sub-total for A					5,955.43
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	3.63	11,360.00	82,573.00
	b. Backhoe (0.80 cu.m.)	1	3.63	12,296.00	44,688.28
Sub-total for B					127,261.28
C.	Total (A+B)			P	133,216.71
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	133,216.71
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		13,321.67
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		10,657.34
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		7,859.79
J.	Total Unit Cost				283.84

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local
Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan
Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of
103(3) Foundation Fill
cu.m.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

1.25
10.00

For RCPC Beddings

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.00	611.92	611.92
	b. Unskilled Labor	4	1.00	342.24	1,368.96
Sub-total for A					P 1,980.88
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Plate Compactor (5 hp)	1	1.00	984.00	984.00
	b. Water Truck/Pump (16000 L)	1	0.01	19,600.00	196.00
	Minor Tools 10% of Labor Cost				198.09
	Sub-total for B			P	1,378.09
C.	Total (A+B)				3,358.97
D.	Output/day	10.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Filling Materials (well-graded sand)	11.50	cu.m.	2,477.61	28,492.52
	Sub-total for E			P	28,492.52
F.	Direct Cost (C + E)				31,851.48
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		3,185.15
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,548.12
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,879.24
J.	Total Unit Cost				3,946.40

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 103(6)a Pipe Culverts and Drain Excavation

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

20.00
110.50

For RCPC Excavation

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.69	611.92	422.61
	b. Unskilled Labor	3	0.69	342.24	709.08
Sub-total for A					1,131.69
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	0.69	11,360.00	15,691.00
	b. Backhoe (0.80 cu.m.)	1	0.69	12,296.00	8,491.93
	Minor Tools 10% of Labor Cost				113.17
	Sub-total for B			P	24,296.09
C.	Total (A+B)				25,427.78
D.	Output/day	160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Sub-total for E			P	-
F.	Direct Cost (C + E)				25,427.78
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,542.78
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,034.22
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,500.24
J.	Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

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

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

cu.m.

50.00
3,093.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work				
	a. Const. Foreman	1	6.42	611.92	3,927.29
	c. Unskilled Laborer	2	6.42	342.24	4,392.98
	Spreading and Compaction				
	a. Const. Foreman	1	7.73	611.92	4,731.67
	c. Unskilled Laborer	2	7.73	342.24	5,292.74
Sub-total for A					P 18,344.68
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	6.42	27,032.00	173,490.70
	b. Payloader (1.50 cu.m.)	1	6.42	13,864.00	88,978.81
	c. Dump Truck (12 cu.yd.)	2	6.42	11,360.00	145,816.39
	Spreading and Compaction				
	a. Motorized Road Grader (140 hp), G170A	1	7.73	17,384.00	134,421.78
	b. Vibratory Roller (10 mt), SD100C	1	7.73	14,768.00	114,193.56
	c. Water Truck/Pump (16000 L)	1	1.93	19,600.00	37,889.25
Sub-total for B					P 694,790.49
C.	Total (A+B)				713,135.16
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)				713,135.16
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		71,313.52
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		57,050.81
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		42,074.97
J.	Total Unit Cost				285.67

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 105(1)a Subgrade Preparation

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

sq.m.
300.00
30,749.00

Variable Width

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	12.81	611.92	7,839.97
	b. Unskilled Laborer	2	12.81	342.24	8,769.61
Sub-total for A					P 16,609.58
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	12.81	17,384.00	222,725.26
	b. Vibratory Roller (10 mt), SD100DC	1	12.81	14,768.00	189,208.85
	c. Water Truck/Pump (16000 L)	1	3.20	19,600.00	62,779.21
	Sub-total for B			P	474,713.31
C.	Total (A+B)				491,322.90
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)				491,322.90
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		49,132.29
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		39,305.83
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		28,988.05
J.	Total Unit Cost				19.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local
Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan
Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of
200(1) Aggregate Subbase Course
cu.m.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

50.00
11,489.50

0.30 m. thick. (min.), Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	28.72	611.92	17,576.64
	b. Unskilled Labor	2	28.72	342.24	19,660.83
Sub-total for A					
				P	37,237.47
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	28.72	17,384.00	499,333.67
	b. Vibratory Roller (10 mt), SD100DC	1	28.72	14,768.00	424,192.34
	c. Water Truck/Pump (16000 L)	1	7.18	19,600.00	140,746.38
	Sub-total for B			P	1,064,272.39
C.	Total (A+B)				1,101,509.85
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)	13,212.93	cu.m.	1,777.61	23,487,427.61
	Sub-total for E			P	23,487,427.61
F.	Direct Cost (C + E)				24,588,937.46
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,458,893.75
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,967,115.00
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,450,747.31
J.	Total Unit Cost				2,651.61

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

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

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

50.00
1,240.00

0.15m *thk* for shouldering
Volume
Compacted

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.10	611.92	1,896.95
	b. Unskilled Labor	2	3.10	342.24	2,121.89
Sub-total for A					
			P		4,018.84
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	3.10	17,384.00	53,890.40
	b. Vibratory Roller (10 mt), SD100DC	1	3.10	14,768.00	45,780.80
	c. Water Truck/Pump (16000 L)	1	0.78	19,600.00	15,190.00
	Sub-total for B			P	114,861.20
C.	Total (A+B)				118,880.04
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)	1,426.00	cu.m.	1,677.61	2,392,271.86
	Sub-total for E			P	2,392,271.86
F.	Direct Cost (C + E)				2,511,151.90
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		251,115.19
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		200,892.15
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		148,157.96
J.	Total Unit Cost				2,509.13

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 311(1)a Portland Cement Concrete Pavement

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

107.33

1,485.00

0.15 m. thick, for shouldering

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.73	611.92	1,058.30
	b. Skilled Labor	4	1.73	443.20	3,066.02
	c. Unskilled Labor	12	1.73	342.24	7,102.76
Sub-total for A					11,227.09
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	1.73	10,544.00	72,942.51
	b. Concrete Vibrator	2	1.73	730.00	2,525.04
	c. Concrete Batch Plant (30 cu.m.)	1	1.73	14,076.00	24,344.15
	d. Payloader (1.50 cu.m.), LX80-2C	1	1.73	13,864.00	23,977.50
	e. Concrete Screeder (5.5 hp)	1	1.73	4,360.00	7,540.53
	f. Water truck/Pump (16000 L)	1	1.73	19,600.00	33,897.79
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	1.73	261.04	451.46
	h. Bar Cutter, Single Phase	1	0.17	1,758.00	304.04
	Minor Tools 5% of Labor				561.35
Sub-total for B					166,544.38
C.	Total (A+B)				177,771.47
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	490.05	kg.	38.00	18,621.90
	b. Curing Compound	430.65	L	35.00	15,072.75
	c. Asphalt Sealant	178.20	L	100.00	17,820.00
	d. Steel Forms (Rental)	683.10	m	60.00	40,986.00
	e. Sand	122.51	cu.m.	2,477.61	303,538.20
	f. Gravel	222.75	cu.m.	1,777.61	395,962.63
	g. Cement	2,123.55	bag	285.00	605,211.75
	h. Concrete Saw (Diamond Blade 14" Ø)	0.22	pc.	2,500.00	556.88
	i. Pipe Sleeve, 2" Ø	11.58	m.	61.00	706.56
	j. Grease/Tar	2.23	L	112.50	250.59
Sub-total for E					1,398,727.25
F.	Direct Cost (C + E)			P	1,576,498.72
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		157,649.87
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		126,119.90
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		93,013.42
J.	Total Unit Cost				1,315.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 311(1)el Portland Cement Concrete Pavement

Item No./Description:

Unit of Measurement: sq.m.

Output per hour: 57.50

Quantity: 20,150.00

0.28 m. thick.
Widening Lane Width = 3.35m (Bothsides)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	43.80	611.92	26,804.76
	b. Skilled Labor	4	43.80	443.20	77,656.35
	c. Unskilled Labor	12	43.80	342.24	179,899.20
Sub-total for A					P 284,360.30
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	43.80	10,544.00	1,847,492.17
	b. Concrete Vibrator	2	43.80	730.00	63,954.35
	c. Concrete Batch Plant (30 cu.m.)	1	43.80	14,076.00	616,590.00
	d. Payloader (1.50 cu.m.), LX80-2C	1	43.80	13,864.00	607,303.48
	e. Concrete Screeder (5.5 hp)	1	43.80	4,360.00	190,986.96
	f. Water truck/Pump (16000 L)	1	43.80	19,600.00	858,565.22
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	43.80	261.04	11,434.69
	h. Bar Cutter, Single Phase	1	43.80	1,758.00	7,700.80
	Minor Tools 5% of Labor		4.38		14,218.02
Sub-total for B					P 4,218,245.68
C.	Total (A+B)				4,502,605.98
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	10,075.00	kg.	38.00	382,850.00
	b. Curing Compound	5,843.50	L	35.00	204,522.50
	c. Asphalt Sealant	3,425.50	L	100.00	342,550.00
	d. Steel Forms (Rental)	9,269.00	m	60.00	556,140.00
	e. Sand	3,103.10	cu.m.	2,477.61	7,688,271.59
	f. Gravel	5,642.00	cu.m.	1,777.61	10,029,275.62
	g. Cement	53,599.00	bag	285.00	15,275,715.00
	h. Concrete Saw (Diamond Blade 14" Ø)	3.02	pc.	2,500.00	7,556.25
	i. Pipe Sleeve, 2" Ø	157.17	m.	61.00	9,587.37
	j. Grease/Tar	157.17	L	112.50	17,681.63
Sub-total for E					P 34,514,149.96
F.	Direct Cost (C + E)			P	39,016,755.94
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		3,901,675.59
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		3,121,340.48
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,301,988.60
J.	Total Unit Cost				2,399.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 404(1)a Reinforcing Steel

Item No./Description:

Unit of Measurement: kg.

Output per hour:

Quantity:

180.00
11,864.00

Grade 40, For Lined Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.24	611.92	5,041.54
	b. Skilled Labor	2	8.24	443.20	7,302.95
	c. Unskilled Labor	8	8.24	342.24	22,557.42
Sub-total for A					
				P	34,901.91
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	4.12	1,758.00	7,241.98
	b. Bar Bender	1	4.12	2,812.00	11,583.88
	c. Cargo Truck (9 - 10 mt.)	1	1.24	9,696.00	11,982.64
	Sub-total for B			P	30,808.50
C.	Total (A+B)				65,710.41
D.	Output/day	1,440.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	249.14	kg.	90.00	22,422.96
	b. Reinforcing Steel Bar, Grade 40 (with 5% wastage)	12,457.20	kg.	38.00	473,373.60
	Sub-total for E			P	495,796.56
F.	Direct Cost (C + E)				561,506.97
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		56,150.70
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		44,920.56
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		33,128.91
J.	Total Unit Cost				58.64

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

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

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

1.40
293.00

For Lined Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	26.16	611.92	16,008.26
	b. Skilled Labor	4	26.16	443.20	46,377.71
	c. Unskilled Labor	8	26.16	342.24	71,625.94
	Installation/Removal of Formworks				
	b. Skilled Labor	4	26.16	443.20	46,377.71
	c. Unskilled Labor	8	26.16	342.24	71,625.94
Sub-total for A					P 252,015.58
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	26.16	1,376.00	35,997.14
	b. Concrete Vibrator	1	26.16	730.00	19,097.32
	c. Water Truck/Pump (16000 L)	1	2.62	19,600.00	51,275.00
	Minor Tools 5% of Labor				12,600.78
	Sub-total for B			P	118,970.24
C.	Total (A+B)				370,985.82
D.	Output/day	11.20	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	20,510.00	bd.ft.	56.00	287,140.00
	b. Marine Plywood (1/2" x 4' x 8') - 4 uses	468.80	pc.	1,750.00	205,100.00
	c. Assorted CWN (1kg./100 bd.ft. of Lumber)	205.10	kg.	90.00	18,459.00
	d. Cement	2,783.50	bag	285.00	793,297.50
	e. Sand	146.50	cu.m.	2,477.61	362,969.87
	f. Gravel	293.00	cu.m.	1,777.61	520,839.73
	Sub-total for E			P	2,187,806.10
F.	Direct Cost (C + E)				2,558,791.92
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		255,879.19
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		204,703.35
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		150,968.72
J.	Total Unit Cost				10,820.28

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 500(1)b3 Pipe Culverts

Item No./Description:

In.m.

Unit of Measurement:

1.00
68.00

Output per hour:

Class IV, Wall B, AASHTO M - 170 - 85
(ø10mm dia)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.85	611.92	2,964.75
	b. Skilled Labor	2	4.85	443.20	4,294.61
	c. Unskilled Labor	4	4.85	342.24	6,632.61
Sub-total for A					P 13,891.97
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	2.47	12,296.00	30,309.64
	b. Plate Compactor (5 hp)	1	2.47	984.00	2,425.56
	Minor Tools 10% of Labor				1,389.20
Sub-total for B					P 34,124.40
C.	Total (A+B)				48,016.37
D.	Output/day	8.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	73.44	bag	285.00	20,930.40
	b. Sand	4.15	cu.m.	2,477.61	10,277.13
	c. RC Pipes (ø10 mm. dia.)	68.00	cu.m.	3,128.00	212,704.00
	d. Sand Bedding/Selected Sandy Soil	8.70	m.	2,477.61	21,565.12
Sub-total for E					P 265,476.64
F.	Direct Cost (C + E)				313,493.01
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		31,349.30
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		25,079.44
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		18,496.09
J.	Total Unit Cost				5,712.03

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 500(1)b4 Pipe Culverts

In.m.

Item No./Description:

Unit of Measurement:

Output per hour:

Quantity:

1.00
7.00

Class IV, Wall B, AASHTO M - 170 - 85
(1070mm)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.59	611.92	358.74
	b. Skilled Labor	2	0.59	443.20	519.65
	c. Unskilled Labor	4	0.59	342.24	802.55
Sub-total for A					P 1,680.94
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	0.29	12,296.00	3,550.47
	b. Plate Compactor (5 hp)	1	0.29	984.00	284.13
	Minor Tools 10% of Labor				168.09
Sub-total for B					P 4,002.69
C.	Total (A+B)				5,683.64
D.	Output/day	8.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	8.69	bag	285.00	2,477.79
	b. Sand	0.49	cu.m.	2,477.61	1,214.03
	c. RC Pipes (1070 mm. dia.)	7.00	pc	1,665.00	11,655.00
	d. Sand Bedding/Selected Sandy Soil	1.04	cu.m.	2,477.61	2,584.15
Sub-total for E					P 17,930.97
F.	Direct Cost (C + E)				23,614.60
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,361.46
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,889.17
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,393.26
J.	Total Unit Cost				4,179.78

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 505(2)a Grouted Riprap, Class "A"

Item No./Description:

Unit of Measurement: cu.m.

Output per hour:

Quantity:

1.25
16.50

For Slope Protection & Headwall Apron

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.65	611.92	1,009.67
	b. Skilled Labor	2	1.65	443.20	1,462.56
	c. Unskilled Labor	8	1.65	342.24	4,517.57
Sub-total for A					
				P	6,989.80
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.65	1,376.00	2,270.40
	b. Water Truck/Pump (16000 L)	1	0.08	19,600.00	1,617.00
	Minor Tools 5% of Labor				349.49
Sub-total for B					
				P	4,236.89
C.	Total (A+B)				11,226.69
D.	Output/day	10.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	49.50	bag	285.00	14,107.50
	b. Sand	4.13	cu.m.	2,477.61	10,220.14
	c. Gravel	0.25	cu.m.	1,777.61	439.96
	d. Weep Holes (PVC)	4.95	m.	55.00	272.25
	e. Filter Cloth	0.25	sq.m.	176.00	43.56
	f. Boulders (15 - 25 kg.)	17.33	cu.m.	1,582.61	27,418.72
	Miscellaneous 1% of Materials Cost				525.02
Sub-total for E					
				P	53,027.15
F.	Direct Cost (C + E)				64,253.84
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		6,425.38
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		5,140.31
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		3,790.98
J.	Total Unit Cost				4,824.88

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 506(1) Stone Masonry

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

1.60
59.00

For Headwall and Wingwall

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.61	611.92	2,820.57
	b. Skilled Labor	2	4.61	443.20	4,085.75
	c. Unskilled Labor	8	4.61	342.24	12,620.10
Sub-total for A					
				P	19,526.42
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACCEL Rates)				
	a. One Bagger Mixer	1	4.61	1,376.00	6,342.50
	b. Water Truck/Pump (16000 L)	1	0.23	19,600.00	4,517.19
	c. Backhoe (Wheel Type 0.28 cu.m.)	1	0.46	7,376.00	3,399.88
	Minor Tools 5% of Labor				976.32
	Sub-total for B			P	15,235.88
C.	Total (A+B)				34,762.30
D.	Output/day	12.80	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	324.50	bag	285.00	92,482.50
	b. Sand	17.70	cu.m.	2,477.61	43,853.70
	c. Gravel	1.18	cu.m.	1,777.61	2,097.58
	d. Weep Holes (PVC)	17.70	m.	55.00	973.50
	e. Filter Cloth	0.89	sq.m.	176.00	155.76
	f. Boulders	61.95	cu.m.	1,582.61	98,042.69
	Miscellaneous 1% of Materials Cost				2,376.06
	Sub-total for E			P	239,981.78
F.	Direct Cost (C + E)				274,744.09
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		27,474.41
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		21,979.53
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		16,209.90
J.	Total Unit Cost				5,769.63

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 611(1) Trees, Furnishing & Transplanting

Item No./Description:

Unit of Measurement: each

1.00

Output per hour:

301.00

Quantity:

Diameter not less than 1.50cm & Height
not less than 1.50m

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	37.63	611.92	23,023.49
	b. Skilled Labor	1	37.63	443.20	16,675.40
	c. Unskilled Labor	2	37.63	342.24	25,753.56
Sub-total for A					P 65,452.45
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck (9-10mt)	1	37.63	11,360.00	427,420.00
	b. Backhoe (0.80 cu.m.)	1	37.63	12,296.00	462,637.00
	c. Water Truck/Pump (16000 L)	1	18.81	19,600.00	368,725.00
	Minor Tools 10% of Labor				6,545.25
Sub-total for B					P 1,265,327.25
C.	Total (A+B)				1,330,779.70
D.	Output/day	8.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Trees (Delivered at Site)	301.00	pc	25.00	7,525.00
	b. Fertilizers	903.00	kg	1,350.00	1,219,050.00
	c. Bamboo Pole	903.00	pc	10.00	9,030.00
	d. Polyethylene Sheets	903.00	sq.m.	15.00	13,545.00
	e. Tie Wire	75.25	kg	90.00	6,772.50
Sub-total for E					P 1,255,922.50
F.	Direct Cost (C + E)				2,586,702.20
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		258,670.22
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		206,936.18
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		152,615.43
J.	Total Unit Cost				10,647.59

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME:

Construction/Repair/Rehabilitation/Improvement of Various Infrastructure Including Local Projects - National Roads and Bridges - National Roads - Road Widening Along Basilan Circumferential Road (BCR) Isabela - Maluso Road, Isabela City, Basilan Including Road Right of 612(1) ReflectORIZED Thermoplastic Pavement Markings (White)

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

25.00
832.00

For Center Line and Edge Lines

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.16	611.92	2,545.59
	b. Skilled Labor	2	4.16	443.20	3,687.42
	c. Unskilled Labor	6	4.16	342.24	8,542.31
Sub-total for A					14,775.32
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	4.16	6,264.00	26,058.24
	b. Applicator Machine	1	4.16	750.00	3,120.00
	c. Kneading Machine	1	4.16	1,500.00	6,240.00
	Minor Tools 10% of Labor				1,477.53
Sub-total for B					36,895.77
C.	Total (A+B)			P	51,671.09
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (White)	270.40	bag	1,585.00	428,584.00
	b. Glass Beads	27.46	bag	2,500.00	68,640.00
	c. Primer	99.84	L	168.00	16,773.12
	d. LPG (50 kg)	3.33	cyl.	5,865.00	19,518.72
	e. LPG (12 kg)	1.66	cyl.	5,865.00	9,759.36
	f. Calsumine	104.00	kg.	100.00	10,400.00
	Miscellaneous 5% of Materials Cost				27,683.76
Sub-total for E					581,358.96
F.	Direct Cost (C + E)			P	633,030.05
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		63,303.01
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		50,642.40
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		37,348.77
J.	Total Unit Cost				942,70