





Construction of By-Pass and Diversion Roads Ipil Circumferential Road, (Don Andres - Magdaup - Pangi Section), Zamboanga Sibugay  
Zamboanga Sibugay

FORM POW-2015-01A-00

ITEMIZED BREAKDOWN

ITEM NO.	DESCRIPTION	QUANTITY		UNIT	DIRECT COST				TOTAL UNIT COST		% DIRECT COST
		AS SUBMITTED	AS EVALUATED		TOTAL		UNIT COST		TOTAL		
					AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS EVALUATED
PART A	Facilities for the Engineers										
A.1.1 (3)	Const. of Field Office for the Enigneer	1.00		ls	487,015.63		487,015.63		603,412.37		0.49%
A.1.1 (11)	Prov. Of Furniture, Equipment, & Appliance for Field Engineer	1.00		ls	300,000.00		300,000.00		315,000.00		0.30%
A.1.2 (5)	Operation & Maintenance of Gov't. Service Vehicles	1.00		ls	441,704.06		441,704.06		463,789.26		0.44%
	TOTAL OF PART A				1,228,719.69						1.23%
PART B	Other General Requirements										
B.4(1)	Construction Survey and Staking	2.28		km	41,324.15		18,124.63		22,456.41		0.04%
B.5	Project Billboard	2.00		unit	12,756.96		6,378.48		7,902.94		0.01%
B.7	Occupational Safety & Health Program	1.00		ls	220,737.93		220,737.93		250,316.81		0.22%
B.9	Mobilization & Demobilization	1.00		ls	476,602.00		476,602.00		500,432.10		0.48%
	TOTAL OF PART B				751,421.04						0.75%
PART C	Earthworks										
102(1)	Unsuitable Excavation	12,456.00		cu.m	2,968,713.22		238.34		295.30		2.98%
103(1)a	Structure Excavation	330.00		cu.m	29,288.52		88.75		109.97		0.03%
103(3)	Foundation Fill	2.00		cu.m	3,553.66		1,776.83		2,201.49		0.00%
103(6)a	Pipe Culverts and Drain Excavation	75.00		cu.m	17,306.48		230.75		285.90		0.02%
104(1a)	Embankment from Roadway Excavation	15,491.00		cu.m	3,576,894.41		230.90		286.09		3.59%
104(2a)	Embankment from Borrow	8,697.00		cu.m	4,894,717.48		562.81				4.91%
104(5)	Boulder Fill	25,332.00		cu.m	37,143,311.43		1,466.26				37.24%
105(1a)	Subgrade Preparation	5,877.00		sq.m	94,086.14		16.01		19.84		0.09%
	TOTAL OF PART C				48,727,871.35						48.86%
PART D	Subbase and Base Course										
200(1)	Aggregate Subbase Course	8,894.00		cu.m	13,560,684.25		1,524.70		1,889.10		13.60%
	TOTAL OF PART D				13,560,684.25						13.60%
PART E	Surface Courses										
300(1)	Gravel Surface Course	890.00		cu.m	1,217,787.24		1,368.30		1,695.32		1.22%
311(1a)	Portland Cement Concrete Pavement	1,670.00		sq.m	1,471,821.07		881.33		1,091.97		1.48%
311(1e1)	Portland Cement Concrete Pavement	16,140.00		sq.m	25,933,426.86		1,606.78		1,990.80		26.00%
	TOTAL OF PART E				28,623,035.18						28.70%
PART G	Drainage and Slope Protection Structures										
404(1)a	Reinforcing Steel (Grade 40)	6,674.00		kg	329,588.77		49.38		61.19		0.33%
404(1)b	Reinforcing Steel (Grade 60)	13,787.00		kg	709,809.81		51.48		63.79		0.71%
405(1)a3	Structural Concrete, Class A	168.00		cu.m	1,179,400.18		7,020.24		8,698.08		1.18%

407(8)	Lean Concrete for RCB	5.00			32,867.38		6,573.48		8,144.54		0.03%
500(1)b3	Pipe Culvert & Storm Drain	14.00		ln.m	46,969.37		3,354.95		4,156.79		0.05%
505(5)	Grouted Riprap, Class "A"	70.00		cu.m	228,104.55		3,258.64		4,037.45		0.23%
506(1)	Stone Masonry	9.00		cu.m	28,759.26		3,195.47		3,959.19		0.03%
	<b>TOTAL OF PART G</b>				<b>2,555,499.32</b>						<b>2.56%</b>
<b>PART H</b>	<b>Miscellaneous Structure</b>										
612(1)	Reflectorized Thermoplastic Pavement Markings White	570.00		sq.m	417,066.82		731.70		906.57		0.42%
612(2)	Reflectorized Thermoplastic Pavement Markings Yellow	60.00		sq.m	43,901.77		731.70				0.04%
715 (1)b	Separation Geotextile	17,107.00		sq.m	3,174,778.75		185.58				3.18%
622(1)b	Coconet Bio-Engineering Solutions (Coconet)	909.00		sq.m	124,967.89		137.48		170.34		0.13%
622(2)b	Coconet Bio-Engineering Solutions (Cocologs/Fascine)	370.00		ln.m	184,880.89		499.68		619.10		0.19%
622(3)a	Coconet Bio-Engineering Solutions (Vegetation)	2,155.00		sq.m	344,955.63		160.07		198.33		0.35%
	<b>TOTAL OF PART H</b>				<b>4,290,551.76</b>						<b>4.30%</b>
	<b>GRAND TOTAL</b>				<b>99,737,782.59</b>						<b>100.00%</b>





Construction of By-Pass and Diversion Roads Ipil Circumferential Road, (Don Andres - Magdaup - Pangil Section), Zamboanga Sibugay  
Zamboanga Sibugay

FORM POW-2015-01B-00

MINIMUM EQUIPMENT REQUIREMENT

No.	Equipment Description	Capacity	Number of Equipment	No.	Equipment Description	Capacity	Number of Equipment
1	Dumptruck (10 Wheeler)	12 cu. Yd	10	26			
2	Bulldozer		2	27			
3	Backhoe	0.83 cu.m/1.04 cu. Yd	3	28			
4	Road Grader		2	29			
5	Road Roller	10 mt	2	30			
6	Payloader	1.50 cu.m/1.95 cu.yd	4	31			
7	Water Truck/Pump	16000L	2	32			
8	Water Tank		2	33			
9	Transit Mixer	5-6 cu. Yd	4	34			
10	Portable Screed		1	35			
11	Concrete Vibrator		2	36			
12	Concrete Cutter		2	37			
13	Bar Cutter		1	38			
14	Bar Bender		1	39			
15	Cobcrete Mixer	4-6 cu.ft/min	2	40			
16	Plate Compactor		1	41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			
	SUB-TOTAL				SUB-TOTAL		
TOTAL							





**Construction of By-Pass and Diversion Roads Ipil Circumferential Road, (Don Andres - Magdaup - Pangil Section), Zamboanga Sibugay**  
**Zamboanga Sibugay**

FORM POW-2015-01C-00

ITEMIZED BREAKDOWN													
ITEM NO.	DESCRIPTION		DETAILED BREAKDOWN OF COMPONENT COST FOR EACH ITEM										
			%	QTY	UNIT	DIRECT COST				TOTAL MARK-UP		5% VAT	TOTAL COST
						MATERIAL	LABOR	EQUIPMENT	TOTAL	%	VALUE		
<b>PART A</b>	<b>Facilities for the Engineers</b>												
A.1.1 (3)	Const. of Field Office for the Enigneer	AS EVALUATED											
		AS SUBMITTED	0.49%	1.00	ls	400,000.00	56,283.30	30,732.33	487,015.63	18.00%	87,662.81	28,733.92	603,412.37
A.1.1 (11)	Prov. Of Furniture, Equipment, & Appliance for Field Engineer	AS EVALUATED											
		AS SUBMITTED	0.30%	1.00	ls	300,000.00	-	-	300,000.00	0.00%	-	15,000.00	315,000.00
A.1.2 (5)	Operation & Maintenance of Gov't. Service Vehicles	AS EVALUATED											
		AS SUBMITTED	0.44%	1.00	ls	377,000.00	64,704.06	-	441,704.06	0.00%	-	22,085.20	463,789.26
	<b>TOTAL OF PART A</b>	AS EVALUATED											
		AS SUBMITTED	1.23%			1,077,000.00	120,987.36	30,732.33	1,228,719.69		87,662.81	65,819.13	1,382,201.63
<b>PART B</b>	<b>Other General Requirements</b>												
B.4(1)	Construction Survey and Staking	AS EVALUATED											
		AS SUBMITTED	0.04%	2.28	km	12,180.00	26,444.15	2,700.00	41,324.15	18.00%	7,438.35	2,438.12	51,200.62
B.5	Project Billboard	AS EVALUATED											
		AS SUBMITTED	0.01%	2.00	unit	12,180.00	576.96	-	12,756.96	18.00%	2,296.25	752.66	15,805.88
B.7	Occupational Safety & Health Program	AS EVALUATED											
		AS SUBMITTED	0.22%	1.00	ls	12,360.00	208,377.93	-	220,737.93	8.00%	17,659.03	11,919.85	250,316.81
B.9	Mobilization & Demobilization	AS EVALUATED											
		AS SUBMITTED	0.48%	1.00	ls	-	-	476,602.00	476,602.00	0.00%	-	23,830.10	500,432.10
	<b>TOTAL OF PART B</b>	AS EVALUATED											
		AS SUBMITTED	0.75%			36,720.00	235,399.04	479,302.00	751,421.04		27,393.63	38,940.73	817,755.41
<b>PART C</b>	<b>Earthworks</b>												
102(1)	Unsuitable Excavation	AS EVALUATED											
		AS SUBMITTED	2.98%	12,456.00	cu.m	-	134,786.38	2,833,926.84	2,968,713.22	18.00%	534,368.38	175,154.08	3,678,235.67
103(1)a	Structure Excavation	AS EVALUATED											
		AS SUBMITTED	0.03%	330.00	cu.m	-	3,570.93	25,717.59	29,288.52	18.00%	5,271.93	1,728.02	36,288.48
103(3)	Foundation Fill	AS EVALUATED											
		AS SUBMITTED	0.00%	2.00	cu.m	2,857.29	418.52	277.85	3,553.66	18.00%	639.66	209.67	4,402.99
103(6)a	Pipe Culverts and Drain Excavation	AS EVALUATED											
		AS SUBMITTED	0.02%	75.00	cu.m	-	811.58	16,494.91	17,306.48	18.00%	3,115.17	1,021.08	21,442.73
104(1a)	Embankment from Roadway Excavation	AS EVALUATED											
		AS SUBMITTED	3.59%	15,491.00	cu.m	-	97,101.51	3,479,792.90	3,576,894.41	18.00%	643,840.99	211,036.77	4,431,772.18
104(2a)	Embankment from Borrow	AS EVALUATED											
		AS SUBMITTED		8,697.00	cu.m	4,059,324.75	29,789.62	805,603.11	4,894,717.48	18.00%	881,049.15	288,788.33	6,064,554.95
104(5)	Boulder Fill	AS EVALUATED											
		AS SUBMITTED		25,332.00	cu.m	35,624,391.60	59,426.97	1,459,492.86	37,143,311.43	18.00%	6,685,796.06	2,191,455.37	46,020,562.86
105(1a)	Subgrade Preparation	AS EVALUATED											
		AS SUBMITTED	0.09%	5,877.00	sq.m	-	3,355.06	90,731.09	94,086.14	18.00%	16,935.51	5,551.08	116,572.73

	<b>TOTAL OF PART C</b>	AS EVALUATED											
		AS SUBMITTED	48.86%			39,686,573.64	329,260.56	6,712,037.15	48,727,871.35		6,771,016.84	2,874,944.41	60,373,832.60
<b>PART D</b>	<b>Subbase and Base Course</b>												
200(1)	Aggregate Subbase Course	AS EVALUATED											
		AS SUBMITTED	13.60%	8,894.00	cu.m	12,706,368.63	30,464.40	823,851.22	13,560,684.25	18.00%	2,440,923.16	800,080.37	16,801,687.78
	<b>TOTAL OF PART D</b>	AS EVALUATED											
		AS SUBMITTED	13.60%			12,706,368.63	30,464.40	823,851.22	13,560,684.25		2,440,923.16	800,080.37	16,801,687.78
<b>PART E</b>	<b>Surface Courses</b>												
300(1)	Gravel Surface Course	AS EVALUATED											
		AS SUBMITTED	1.22%	890.00	cu.m	1,132,298.05	3,048.49	82,440.70	1,217,787.24	18.00%	219,201.70	71,849.45	1,508,838.40
311(1a)	Portland Cement Concrete Pavement	AS EVALUATED											
		AS SUBMITTED	1.48%	1,670.00	sq.m	1,271,821.48	13,338.55	186,661.05	1,471,821.07	18.00%	264,927.79	86,837.44	1,823,586.31
311(1e1)	Portland Cement Concrete Pavement	AS EVALUATED											
		AS SUBMITTED	26.00%	16,140.00	sq.m	22,313,371.02	240,629.51	3,379,426.34	25,933,426.86	18.00%	4,668,016.83	1,530,072.18	32,131,515.88
	<b>TOTAL OF PART E</b>	AS EVALUATED											
		AS SUBMITTED	28.70%			24,717,490.54	257,016.55	3,648,528.09	28,623,035.18		5,152,146.33	1,688,759.08	35,463,940.59
<b>PART G</b>	<b>Drainage and Slope Protection Structures</b>												
404(1)a	Reinforcing Steel (Grade 40)	AS EVALUATED											
		AS SUBMITTED	0.33%	6,674.00	kg	291,520.32	20,742.00	17,326.45	329,588.77	18.00%	59,325.98	19,445.74	408,360.49
404(1)b	Reinforcing Steel (Grade 60)	AS EVALUATED											
		AS SUBMITTED	0.71%	13,787.00	kg	631,168.86	42,848.37	35,792.58	709,809.81	18.00%	127,765.77	41,878.78	879,454.36
405(1)a3	Structural Concrete, Class A	AS EVALUATED											
		AS SUBMITTED	1.18%	168.00	cu.m	958,097.71	152,678.55	68,623.93	1,179,400.18	18.00%	212,292.03	69,584.61	1,461,276.83
407(8)	Lean Concrete for RCBC	AS EVALUATED											
		AS SUBMITTED	0.03%	5.00	cu.m	28,514.81	2,416.56	1,936.01	32,867.38	18.00%	5,916.13	1,939.18	40,722.68
500(1)b3	Pipe Culvert & Storm Drain	AS EVALUATED											
		AS SUBMITTED	0.05%	14.00	ln.m	34,396.34	5,303.11	7,269.91	46,969.37	18.00%	8,454.49	2,771.19	58,195.04
505(5)	Grouted Riprap, Class "A"	AS EVALUATED											
		AS SUBMITTED	0.23%	70.00	cu.m	177,152.36	31,327.45	19,624.75	228,104.55	18.00%	41,058.82	13,458.17	282,621.54
506(1)	Stone Masonry	AS EVALUATED											
		AS SUBMITTED	0.03%	9.00	cu.m	22,776.73	3,146.73	2,835.80	28,759.26	18.00%	5,176.67	1,696.80	35,632.72
	<b>TOTAL OF PART G</b>	AS EVALUATED											
		AS SUBMITTED	2.56%			2,143,627.13	258,462.77	153,409.42	2,555,499.32		459,989.88	150,774.46	3,166,263.66
<b>PART H</b>	<b>Miscellaneous Structure</b>												
612(1)	ReflectORIZED Thermoplastic Pavement Markings White	AS EVALUATED											
		AS SUBMITTED	0.42%	570.00	sq.m	371,255.54	10,695.62	35,115.66	417,066.82	18.00%	75,072.03	24,606.94	516,745.79
612(2)	ReflectORIZED Thermoplastic Pavement Markings Yellow	AS EVALUATED											
		AS SUBMITTED		60.00	sq.m	39,079.53	1,125.86	3,696.39	43,901.77	18.00%	7,902.32	2,590.20	54,394.29
715 (1)b	Separation Geotextile	AS EVALUATED											
		AS SUBMITTED	3.18%	17,107.00	sq.m	3,017,674.80	95,699.77	61,404.19	3,174,778.75	18.00%	571,460.18	187,311.95	3,933,550.87
622(1)b	Coconet Bio-Engineering Solutions (Coconet)	AS EVALUATED											
		AS SUBMITTED	0.13%	909.00	sq.m	104,989.50	8,039.22	11,939.17	124,967.89	18.00%	22,494.22	7,373.11	154,835.22
622(2)b	Coconet Bio-Engineering Solutions (Cocologs/Fascine)	AS EVALUATED											
		AS SUBMITTED	0.19%	370.00	ln.m	172,882.50	10,907.63	1,090.76	184,880.89	18.00%	33,278.56	10,907.97	229,067.43
622(3)a	Coconet Bio-Engineering Solutions (Vegetation)	AS EVALUATED											
		AS SUBMITTED	0.35%	2,155.00	sq.m	221,749.50	5,905.17	117,300.96	344,955.63	18.00%	62,092.01	20,352.38	427,400.03

	TOTAL OF PART H	AS EVALUATED										
		AS SUBMITTED	4.30%			3,927,631.37	132,373.27	230,547.13	4,290,551.76	772,299.32	253,142.55	5,315,993.63
	GRAND TOTAL	AS EVALUATED										
		AS SUBMITTED	100.00%			84,295,411.31	1,363,953.94	14,076,407.33	99,737,782.59	17,711,431.98	5,872,460.73	123,321,675.30





REGION IX

Construction of By-Pass and Diversion Roads Ipil Circumferential Road, (Don Andres - Magdaup - Pangi Section), Zamboanga Sibugay

Zamboanga Sibugay

## SUMMARY OF APPROVED BUDGET FOR THE CONTRACT

FORM POW-2015-02-00

DESCRIPTION OF WORKS TO BE DONE			ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST
				%	TOTAL DIRECT COST			
PART A	Facilities for the Engineers	AS EVALUATED						
		AS SUBMITTED	1,228,719.69		87,662.81	65,819.13	153,481.94	1,382,201.63
PART B	Other General Requirements	AS EVALUATED						
		AS SUBMITTED	751,421.04		27,393.63	38,940.73	66,334.37	817,755.41
PART C	Earthworks	AS EVALUATED						
		AS SUBMITTED	48,727,871.35		8,771,016.84	2,874,944.41	11,645,961.25	60,373,832.60
PART D	Subbase and Base Course	AS EVALUATED						
		AS SUBMITTED	13,560,684.25		2,440,923.16	800,080.37	3,241,003.53	16,801,687.78
PART E	Surface Courses	AS EVALUATED						
		AS SUBMITTED	28,623,035.18		5,152,146.33	1,688,759.08	6,840,905.41	35,463,940.59
PART G	Drainage and Slope Protection Structures	AS EVALUATED						
		AS SUBMITTED	2,555,499.32		459,989.88	150,774.46	610,764.34	3,166,263.66
PART H	Miscellaneous Structure	AS EVALUATED						
		AS SUBMITTED	4,290,551.76		772,299.32	253,142.55	1,025,441.87	5,315,993.63
TOTAL		AS EVALUATED						
		AS SUBMITTED	99,737,782.59		17,711,431.98	5,872,460.73	23,583,892.71	123,321,675.30

## Preparation and Submission:

Prepared by:


  
JERALD R. BARRERA  
Engineer II  
DPWH RO9

Checked/Submitted by:

  
ISIDRA A. ESTANISLAO  
Engineer IV-Chairman Estimating Committee  
DPWH RO9


## Evaluation:

Reviewed by:


  
SATURNINO C. TORRE FRANCA  
District Engineer  
DPWH RO9

## Approval:

Recommending Approval

  
KHADAFFY D. TANGGOL  
OIC-Assistant Regional Director  
DPWH RO9

Approved:

  
CAYAMBABO D. DIA  
Regional Director  
DPWH RO9



## SECTION IX

Construction of By-Pass and Diversion Roads Ipil Circumferential Road, (Don Andres - Magdaup - Pangi Section), Zamboanga Sibugay  
Zamboanga Sibugay

FORM POW-2015-02A-00

ITEM NO.	DESCRIPTION		QTY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
<b>PART A</b>	<b>Facilities for the Engineers</b>										
A.1.1 (3)	Const. of Field Office for the Engineer	AS EVALUATED									
		AS SUBMITTED	1.00	ls	487,015.63	18.00%	87,662.81	28,733.92	116,396.74	603,412.37	603,412.37
A.1.1 (11)	Prov. Of Furniture, Equipment, & Appliance for Field Engineer	AS EVALUATED									
		AS SUBMITTED	1.00	ls	300,000.00	0.00%	-	15,000.00	15,000.00	315,000.00	315,000.00
A.1.2 (5)	Operation & Maintenance of Gov't. Service Vehicles	AS EVALUATED									
		AS SUBMITTED	1.00	ls	441,704.06	0.00%	-	22,085.20	22,085.20	463,789.26	463,789.26
	<b>TOTAL OF PART A</b>	AS EVALUATED									
		AS SUBMITTED			1,228,719.69		87,662.81	65,819.13	153,481.94	1,382,201.63	
<b>PART B</b>	<b>Other General Requirements</b>										
B.4(1)	Construction Survey and Staking	AS EVALUATED									
		AS SUBMITTED	2.28	km	41,324.15	18.00%	7,438.35	2,438.12	9,876.47	51,200.62	22,456.41
B.5	Project Billboard	AS EVALUATED									
		AS SUBMITTED	2.00	unit	12,756.96	18.00%	2,296.25	752.66	3,048.91	15,805.88	7,902.94
B.7	Occupational Safety & Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	ls	220,737.93	8.00%	17,659.03	11,919.85	29,578.88	250,316.81	250,316.81
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	ls	476,602.00	0.00%	-	23,830.10	23,830.10	500,432.10	500,432.10
	<b>TOTAL OF PART B</b>	AS EVALUATED			-						
		AS SUBMITTED			751,421.04		27,393.63	38,940.73	66,334.37	817,755.41	
<b>PART C</b>	<b>Earthworks</b>										
102(1)	Unsuitable Excavation	AS EVALUATED									
		AS SUBMITTED	12,456.00	cu.m	2,968,713.22	18.00%	534,368.38	175,154.08	709,522.46	3,678,235.67	295.30
103(1)a	Structure Excavation	AS EVALUATED									
		AS SUBMITTED	330.00	cu.m	29,288.52	18.00%	5,271.93	1,728.02	6,999.95	36,288.48	109.97
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	2.00	cu.m	3,553.66	18.00%	639.66	209.67	849.33	4,402.99	2,201.49
103(6)a	Pipe Culverts and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	75.00	cu.m	17,306.48	18.00%	3,115.17	1,021.08	4,136.25	21,442.73	285.90
104(1a)	Embankment from Roadway Excavation	AS EVALUATED									
		AS SUBMITTED	15,491.00	cu.m	3,576,894.41	18.00%	643,840.99	211,036.77	854,877.76	4,431,772.18	286.09
104(2a)	Embankment from Borrow	AS EVALUATED									
		AS SUBMITTED	8,697.00	cu.m	4,894,717.48	18.00%	881,049.15	288,788.33	1,169,837.48	6,064,554.95	697.32
104(5)	Boulder Fill	AS EVALUATED									
		AS SUBMITTED	25,332.00	cu.m	37,143,311.43	18.00%	6,685,796.06	2,191,455.37	8,877,251.43	46,020,562.86	1,816.70
105(1a)	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	5,877.00	sq.m	94,086.14	18.00%	16,935.51	5,551.08	22,486.59	116,572.73	19.84

	TOTAL OF PART C	AS EVALUATED				-						
		AS SUBMITTED				48,727,871.35		8,771,016.84	2,874,944.41	11,645,961.25	60,373,832.60	
PART D	Subbase and Base Course											
200(1)	Aggregate Subbase Course	AS EVALUATED										
		AS SUBMITTED	8,894.00	cu.m		13,560,684.25	18.00%	2,440,923.16	800,080.37	3,241,003.53	16,801,687.78	1,889.10
	TOTAL OF PART D	AS EVALUATED				-						
		AS SUBMITTED				13,560,684.25		2,440,923.16	800,080.37	3,241,003.53	16,801,687.78	
PART E	Surface Courses											
300(1)	Gravel Surface Course	AS EVALUATED										
		AS SUBMITTED	890.00	cu.m		1,217,787.24	18.00%	219,201.70	71,849.45	291,051.15	1,508,838.40	1,695.32
311(1a)	Portland Cement Concrete Pavement	AS EVALUATED										
		AS SUBMITTED	1,670.00	sq.m		1,471,821.07	18.00%	264,927.79	86,837.44	351,765.24	1,823,586.31	1,091.97
311(1e1)	Portland Cement Concrete Pavement	AS EVALUATED										
		AS SUBMITTED	16,140.00	sq.m		25,933,426.86	18.00%	4,668,016.83	1,530,072.18	6,198,089.02	32,131,515.88	1,990.80
	TOTAL OF PART E	AS EVALUATED				-						
		AS SUBMITTED				28,623,035.18		5,152,146.33	1,688,759.08	6,840,905.41	35,463,940.59	
PART G	Drainage and Slope Protection Structures											
404(1)a	Reinforcing Steel (Grade 40)	AS EVALUATED										
		AS SUBMITTED	6,674.00	kg		329,588.77	18.00%	59,325.98	19,445.74	78,771.72	408,360.49	61.19
404(1)b	Reinforcing Steel (Grade 60)	AS EVALUATED										
		AS SUBMITTED	13,787.00	kg		709,809.81	18.00%	127,765.77	41,878.78	169,644.55	879,454.36	63.79
405(1)a3	Structural Concrete, Class A	AS EVALUATED										
		AS SUBMITTED	168.00	cu.m		1,179,400.18	18.00%	212,292.03	69,584.61	281,876.64	1,461,276.83	8,698.08
407(8)	Lean Concrete for RCBC	AS EVALUATED										
		AS SUBMITTED	5.00	cu.m		32,867.38	18.00%	5,916.13	1,939.18	7,855.30	40,722.68	8,144.54
500(1)b3	Pipe Culvert & Storm Drain	AS EVALUATED										
		AS SUBMITTED	14.00	ln.m		46,969.37	18.00%	8,454.49	2,771.19	11,225.68	58,195.04	4,156.79
505(5)	Grouted Riprap, Class "A"	AS EVALUATED										
		AS SUBMITTED	70.00	cu.m		228,104.55	18.00%	41,058.82	13,458.17	54,516.99	282,621.54	4,037.45
506(1)	Stone Masonry	AS EVALUATED										
		AS SUBMITTED	9.00	cu.m		28,759.26	18.00%	5,176.67	1,696.80	6,873.46	35,632.72	3,999.19
	TOTAL OF PART G	AS EVALUATED				-						
		AS SUBMITTED				2,555,499.32		459,989.88	150,774.46	610,764.34	3,166,263.66	
PART H	Miscellaneous Structure											
612(1)	Reflectorized Thermoplastic Pavement Markings White	AS EVALUATED										
		AS SUBMITTED	570.00	sq.m		417,066.82	18.00%	75,072.03	24,606.94	99,678.97	516,745.79	906.57
612(2)	Reflectorized Thermoplastic Pavement Markings Yellow	AS EVALUATED										
		AS SUBMITTED	570.00	sq.m		43,901.77	18.00%	7,902.32	2,590.20	10,492.52	54,394.29	95.43
715 (1)b	Separation Geotextile	AS EVALUATED										
		AS SUBMITTED	17,107.00	sq.m		3,174,778.75	18.00%	571,460.18	187,311.95	758,772.12	3,933,550.87	229.94
622(1)b	Coconet Bio-Engineering Solutions (Coconet)	AS EVALUATED	-	-		-						
		AS SUBMITTED	909.00	sq.m		124,967.89	18.00%	22,494.22	7,373.11	29,867.33	154,835.22	170.34
622(2)b	Coconet Bio-Engineering Solutions (Cocologs/Fascine)	AS EVALUATED	-	-		-						
		AS SUBMITTED	370.00	ln.m		184,880.89	18.00%	33,278.56	10,907.97	44,186.53	229,067.43	619.10
622(3)a	Coconet Bio-Engineering Solutions (Vegetation)	AS EVALUATED	-	-		-						
		AS SUBMITTED	2,155.00	sq.m		344,955.63	18.00%	62,092.01	20,352.38	82,444.40	427,400.03	198.33



	TOTAL OF PART H	AS EVALUATED				-						
		AS SUBMITTED				4,290,551.76		772,299.32	253,142.55	1,025,441.87	5,315,993.63	
	GRAND TOTAL	AS EVALUATED				-						
		AS SUBMITTED				99,737,782.59		17,711,431.98	5,872,460.73	23,583,892.71	123,321,675.30	

123,321,675.30

Preparation and Submission:

Prepared by:

  
JERALD R. BARRERA  
Engineer II  
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO  
Engineer IV-Chairman Estimating Committee  
DPWH RO9

Evaluation:

Reviewed by:

  
SATURNINO C. TORREFRANCA  
District Engineer  
DPWH RO9

1.00 1s  
1.00

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	80	80.95	6,476.10
	b. Masons	3	80	58.61	14,066.10
	c. Carpenters	3	80	58.61	14,066.10
	d. Laborers	6	80	45.16	21,675.00
	Sub-Total for A-1 As Submitted				56,283.30
A.2	Labor				
	Sub-Total for A-2 As Evaluated				
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1	Equipment				
	a. One Bagger Mixer	1	32	172.00	5,504.00
	b. Water Truck	1	8	2,450.00	19,600.00
	Minor Tools (10% of Labor Cost)				5,628.33
	Sub-Total for B-1 As Submitted				30,732.33
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				56,283.30
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				1.00
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				56,283.30
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Materials	lumpsum	1	400,000.00	400,000.00
	Sub-Total for F-1 As Submitted				400,000.00
	Equipment				
F.2					
	Sub-Total for F-2 As Evaluated				
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				456,283.30
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			125%/95%/75%/65% of G.1	45,628.33
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			125%/95%/75%/65% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	36,502.66
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	26,920.71
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	565,335.01
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

**ISIDRA A. ESTANISLAO**  
Engineer IV

Engineer IV

Item No./Description : Prov. Of Furniture, Equipment, & Appliance for Field Engineer  
Unit of Measurement : 1.00 ls  
Output per hour-As Submitted : 1.00  
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Pip.)
A.1				
Labor				
Sub-Total for A-1 As Submitted				-
A.2				
Labor				
Sub-Total for A-2 As Evaluated				
B.1				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Pip.)
Equipment				
Sub-Total for B-1 As Submitted				-
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				-
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				1.00
D.2				
Output per Hour - As Evaluated				
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
F.1				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Pip.)
Materials				
a. Office Equipment/Facilities & Supplies	lumpsum	1	300,000.00	300,000.00
Sub-Total for F-1 As Submitted				300,000.00
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				300,000.00
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	-
H.2			12%/9%/7%/6% of G.1	-
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			10%/8% of G.1	-
I.1			10%/8% of G.1	-
Contractor's Profit - As Submitted			10%/8% of G.1	-
I.2			5% of (G.1+H1+I1)	15,000.00
Value Added Tax - As Submitted			5% of (G.1+H1+I1)	-
J.1			5% of (G.1+H1+I1)	-
Value Added Tax - As Evaluated			(G.1+H1+I1+J1)	315,000.00
K.1			(G.1+H1+I1+J1)	-
Total Unit Cost - As Submitted			(G.2+H2+I2+J1)	-
K.2			(G.2+H2+I2+J1)	-
Total Unit Cost - As Evaluated				-

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV



**Construction of By-Pass and Diversiads Ipi Circumferential Road, (Don Andres - Magdau ngi Section), Zamboanga Sibugay**  
Zamboanga Sibugay

FORM-POW-2015-01D-00

Item No./Description : Operation & Maintenance of Gov't. Service Vehicles  
Unit of Measurement : 1.00 ls  
Output per hour-As Submitted : 1.00  
Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
<b>Labor</b>				
A.1 a. Service Driver	1	1104	58.61	64,704.06
Sub-Total for A-1 As Submitted				64,704.06
<b>Labor</b>				
A.2				
Sub-Total for A-2 As Evaluated				-
<b>Equipment</b>				
B.1				
Sub-Total for B-1 As Submitted				-
<b>Equipment</b>				
B.2				
Sub-Total for B-2 As Evaluated				-
C.1 Total (A.1+B.1) - As Submitted				64,704.06
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				1.00
D.2 Output per Hour - As Evaluated				-
E.1 Direct Unit Cost (C.1 +D.1) - As Submitted				64,704.06
E.2 Direct Unit Cost (C.2 +D.2) - As Evaluated				-
<b>Materials</b>				
F.1				
a. Diesel Fuel	ltrs	4,680.00	50.00	234,000.00
b. Engine Oil & Lubricants	ls	1.00	30,000.00	30,000.00
c. Tires	pcs	4.00	10,000.00	40,000.00
d. Spareparts etc.	ls	1.00	100,000.00	100,000.00
Sub-Total for F-1 As Submitted				404,000.00
<b>Equipment</b>				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				468,704.06
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	-
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1 Contractor's Profit - As Submitted			10%/8% of G.1	-
I.2 Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1 Value Added Tax - As Submitted			5% of (G.1+H1+I1)	23,435.20
J.2 Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1 Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	492,139.26
K.2 Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

  
**JERALD R. BARERRA**  
Engineer II

Checked/Reviewed

  
**ISIDRA A. ESTANISLAO**  
Engineer IV

## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Construction Survey and Staking

Unit of Measurement : 2.28 km


Output per hour-As Submitted : 1.00

Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
(For Field Works)				
a. Geodetic Engineer	1	27	80.95	2,185.68
b. Skilled Laborer	3	27	58.61	4,747.31
c. Laborer	3	27	45.16	3,657.66
(For Office Works)				
a. Geodetic Engineer	1	80	80.95	6,476.10
b. Skilled Laborer	2	80	58.61	9,377.40
Sub-Total for A-1 As Submitted				26,444.15
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Total Station with complete accessories	1	27	100.00	2,700.00
Sub-Total for B-1 As Submitted				2,700.00
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
Total (A.1+B.1) - As Submitted				29,144.15
C.2				-
Total (A.2+B.2) - As Evaluated				1.00
D.1				
Output per Hour - As Submitted				
D.2				
Output per Hour - As Evaluated				29,144.15
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Standard Stake Plan	pcs	35	200.00	7,000.00
b. Blue Printing	pcs	115	40.00	4,600.00
Miscellaneous (5% of Materials)				580.00
Sub-Total for F-1 As Submitted				12,180.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				41,324.15
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	4,132.41
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1				
Contractor's Profit - As Submitted			10%/8% of G.1	3,305.93
I.2				
Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1				
Value Added Tax - As Submitted			5% of (G.1+H1+I1)	2,438.12
J.2				
Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1				
Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	51,200.62
K.2				
Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

  
JERALD R. BARRERA  
Engineer II  
ISIDRA A. ESTANISLAO  
Engineer IV







## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Occupational Safety & Health Program

Unit of Measurement : 1.00 ls

Output per hour-As Submitted : 1.00

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Safety Practitioner	1	552	80.95	44,685.09
	b. First Aider	2	1104	74.14	163,692.84
	Sub-Total for A-1 As Submitted				208,377.93
	Labor				
A.2					
	Sub-Total for A-2 As Evaluated				
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1	Equipment				
	Sub-Total for B-1 As Submitted				-
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				208,377.93
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				1.00
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				208,377.93
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Pairs, Rubber Boots Men, Long with Steel Toe, Black	pair	24.00	400.00	9,600.00
	b. Pairs, Working Gloves (Maong Materials)	pair	24.00	15.00	360.00
	c. Rain Coats (Rain Forced, Hip Length Small, Medium & Large)	pcs	24.00	100.00	2,400.00
	Sub-Total for F-1 As Submitted				12,360.00
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				220,737.93
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	-
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	17,659.03
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	11,919.85
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	250,316.81
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

  
JERALD R. BARRERA  
Engineer II  
ISIDRA A. ESTANISLAO  
Engineer IV

## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Mobilization & Demobilization

Unit of Measurement : 1.00 ls

Output per hour-As Submitted : 1.00

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
					-
					-
					-
					-
	Sub-Total for A-1 As Submitted				-
	Labor				
A.2					
	Sub-Total for A-2 As Evaluated				
B.1	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	a. Low Bed Trailer	2	56	4,255.38	476,602.00
	Sub-Total for B-1 As Submitted				476,602.00
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				476,602.00
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				1.00
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 +D.1) - As Submitted				476,602.00
E.2	Direct Unit Cost (C.2 ÷D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				-
					-
					-
					-
	Sub-Total for F-1 As Submitted				-
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				476,602.00
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	-
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	-
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	23,830.10
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	500,432.10
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

  
JERALD R. BARRERA  
Engineer II

Checked/Reviewed

  
ISIDRA A. ESTANISLAO  
Engineer IV



## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Unsuitable Excavation

Unit of Measurement : 12,456.00 cu.m

Output per hour-As Submitted : 20.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	3	1.00	45.16	135.47
A.1				
Sub-Total for A-1 As Submitted				216.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				-
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Dumptruck	2	1.00	1,420.00	2,840.00
b. Backhoe	1	1.00	1,537.00	1,537.00
c. Payloader	1	0.10	1,733.00	173.30
Sub-Total for B-1 As Submitted				4,550.30
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				4,766.72
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				20.00
D.2 Output per Hour - As Evaluated				-
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				238.34
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
F.1				
				-
				-
				-
Sub-Total for F-1 As Submitted				-
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				238.34
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	23.83
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1 Contractor's Profit - As Submitted			10%/8% of G.1	19.07
I.2 Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1 Value Added Tax - As Submitted			5% of (G.1+H1+I1)	14.06
J.2 Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1 Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	295.30
K.2 Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Structure Excavation

Unit of Measurement : 330.00 cu.m

Output per hour-As Submitted : 20.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	3	1.00	45.16	135.47
A.1				
Sub-Total for A-1 As Submitted				216.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				-
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Dumptruck	1	1.00	0.00	-
b. Backhoe	1	1.00	1,537.00	1,537.00
c. Minor Tools (10% of Labor)				21.64
Sub-Total for B-1 As Submitted				1,558.64
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				1,775.06
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				20.00
D.2 Output per Hour - As Evaluated				-
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				88.75
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
F.1				
				-
				-
				-
Sub-Total for F-1 As Submitted				-
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				88.75
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	8.88
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1 Contractor's Profit - As Submitted			10%/8% of G.1	7.10
I.2 Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1 Value Added Tax - As Submitted			5% of (G.1+H1+I1)	5.24
J.2 Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1 Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	109.97
K.2 Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV



## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Foundation Fill

Unit of Measurement : 2.00 cu.m

Output per hour-As Submitted : 1.25

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Laborer	4	1.00	45.16	180.63
	Sub-Total for A-1 As Submitted				261.58
	Labor				
A.2					
	Sub-Total for A-2 As Evaluated				-
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1	Equipment				
	a. Plate Compactor	1	1.00	123.00	123.00
	b. Water Truck/Pump	1	0.01	2,450.00	24.50
	c. Minor Tools (10% of Labor)				26.16
	Sub-Total for B-1 As Submitted				173.66
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				435.23
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				1.25
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				348.19
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Filling Materials	cu.m	1.15	1,242.30	1,428.65
					-
	Sub-Total for F-1 As Submitted				1,428.65
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				1,776.83
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	177.68
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	142.15
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	104.83
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	2,201.49
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

  
JERALD R. BARRERA  
Engineer II  
ISIDRA A. ESTANISLAO  
Engineer IV



## DETAILED UNIT PRICE ANALYSIS


FORM-POW-2015-01D-00

Item No./Description : Pipe Culverts and Drain Excavation

Unit of Measurement : 75.00 cu.m  
Output per hour-As Submitted : 20.00  
Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	3	1.00	45.16	135.47
A.1				
Sub-Total for A-1 As Submitted				216.42
Labor				
A.2				
Sub-Total for A-2 As Evaluated				-
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Dumptruck	2	1.00	1,420.00	2,840.00
b. Backhoe	1	1.00	1,537.00	1,537.00
c. Minor Tools (10% of Labor)				21.64
Sub-Total for B-1 As Submitted				4,398.64
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				4,615.06
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				20.00
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 +D.1) - As Submitted				230.75
E.2				
Direct Unit Cost (C.2 +D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
F.1				
Sub-Total for F-1 As Submitted				-
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				230.75
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	23.08
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1				
Contractor's Profit - As Submitted			10%/8% of G.1	18.46
I.2				
Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1				
Value Added Tax - As Submitted			5% of (G.1+H1+I1)	13.61
J.2				
Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1				
Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	285.90
K.2				
Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

  
JERALD R. BARRERA  
Engineer II

Checked/Reviewed

  
ISIDRA A. ESTANISLAO  
Engineer IV

## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Embankment from Roadway Excavation

Unit of Measurement : 15,491.00 cu.m

Output per hour-As Submitted : 50.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
<b>Labor</b>				
<i>For Excavation Work</i>				
a. Construction Foreman	1	0.83	80.95	67.19
b. Laborer	2	0.83	45.16	74.96
<b>A.1</b>				
<i>Spreading and Compaction</i>				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	2	1.00	45.16	90.31
<b>Sub-Total for A-1 As Submitted</b>				313.41
<b>Labor</b>				
				-
				-
<b>A.2</b>				
<b>Sub-Total for A-2 As Evaluated</b>				-
<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hour/s</b>	<b>Hourly Rate</b>	<b>Amount (Php.)</b>
<b>Equipment</b>				
<i>For Excavation Work</i>				
a. Bulldozer	1	0.83	3,379.00	2,804.57
b. Payloader	1	0.83	1,733.00	1,438.39
c. Dumptruck	2	0.83	1,420.00	2,357.20
<i>Spreading and Compaction</i>				
a. Motorized Road Grader	1	1.00	2,173.00	2,173.00
b. Vibratory Roller	1	1.00	1,846.00	1,846.00
c. Water Truck/Pump	1	0.25	2,450.00	612.50
<b>Sub-Total for B-1 As Submitted</b>				11,231.66
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub-Total for B-2 As Evaluated</b>				
<b>C.1</b>				
<b>Total (A.1+B.1) - As Submitted</b>				11,545.07
<b>C.2</b>				
<b>Total (A.2+B.2) - As Evaluated</b>				-
<b>D.1</b>				
<b>Output per Hour - As Submitted</b>				50.00
<b>D.2</b>				
<b>Output per Hour - As Evaluated</b>				-
<b>E.1</b>				
<b>Direct Unit Cost (C.1 ÷ D.1) - As Submitted</b>				230.90
<b>E.2</b>				
<b>Direct Unit Cost (C.2 ÷ D.2) - As Evaluated</b>				-
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php.)</b>
<b>F.1</b>				
<b>Materials</b>				
				-
				-
<b>Sub-Total for F-1 As Submitted</b>				-
<b>Materials</b>				
<b>F.2</b>				
<b>Sub-Total for F-2 As Evaluated</b>				-
<b>G.1</b>				
<b>Direct Unit Cost (E.1 + F.1) - As Submitted</b>				230.90
<b>G.2</b>				
<b>Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				-
<b>H.1</b>				
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>			12%/9%/7%/6% of G.1	23.09
<b>H.2</b>				
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>			12%/9%/7%/6% of G.1	-
<b>I.1</b>				
<b>Contractor's Profit - As Submitted</b>			10%/8% of G.1	18.47
<b>I.2</b>				
<b>Contractor's Profit - As Evaluated</b>			10%/8% of G.1	-
<b>J.1</b>				
<b>Value Added Tax - As Submitted</b>			5% of (G.1+H1+I1)	13.62
<b>J.2</b>				
<b>Value Added Tax - As Evaluated</b>			5% of (G.2+H2+I2)	-
<b>K.1</b>				
<b>Total Unit Cost - As Submitted</b>			(G.1+H1+I1+J1)	286.09
<b>K.2</b>				
<b>Total Unit Cost - As Evaluated</b>			(G.2+H2+I2+J2)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV



**Construction of By-Pass and Diverstic**      **ids Ipi Circumferential Road, (Don Andres - Magdau**      **ngi Section), Zamboanga Sibugay**  
**Zamboanga Sibugay**  
**DETAILED UNIT PRICE ANALYSIS**

FORM-POW-2015-01D-00

Item No./Description : Embankment from Borrow

Unit of Measurement : 8,697.00 cu.m

Output per hour-As Submitted : 50.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	2	1.00	45.16	90.31
				-
				-
Sub-Total for A-1 As Submitted				171.26
Labor				
				-
				-
A.2				
Sub-Total for A-2 As Evaluated				-
Equipment				
a. Motorized Road Grader	1	1.00	2,173.00	2,173.00
b. Vibratory Roller	1	1.00	1,846.00	1,846.00
c. Water Truck/Pump	1	0.25	2,450.00	612.50
				-
				-
Sub-Total for B-1 As Submitted				4,631.50
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				4,802.76
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				50.00
D.2 Output per Hour - As Evaluated				-
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				96.06
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Common Borrow (w/ 25% Shrinkage Factor)	cu.m	1.25	373.40	466.75
				-
Sub-Total for F-1 As Submitted				466.75
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				562.81
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	56.28
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1 Contractor's Profit - As Submitted			10%/8% of G.1	45.02
I.2 Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1 Value Added Tax - As Submitted			5% of (G.1+H1+I1)	33.21
J.2 Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1 Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	697.32
K.2 Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

  
**JERALD R. BARRERA**  
Engineer II

  
**ISIDRA A. ESTANISLAO**  
Engineer IV

## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Boulder Fill

Unit of Measurement : 25,332.00 cu.m

Output per hour-As Submitted : 150.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	6	1.00	45.16	270.94
A.1				
				-
				-
Sub-Total for A-1 As Submitted				351.89
Labor				
A.2				
Sub-Total for A-2 As Evaluated				-
Equipment				
a. Payloader	3	1.00	1,733.00	5,199.00
b. Dumptruck	3	0.80	1,420.00	3,408.00
Minor Tools (10% of Labor Cost)				35.19
B.1				
				-
				-
Sub-Total for B-1 As Submitted				8,642.19
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				8,994.08
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				50.00
D.2 Output per Hour - As Evaluated				-
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				179.88
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
a. Boulder (w/ 25% Shrinkage Factor)	cu.m	1.05	1,406.30	1,476.62
Sub-Total for F-1 As Submitted				1,476.62
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				1,656.50
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	165.65
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1 Contractor's Profit - As Submitted			10%/8% of G.1	132.52
I.2 Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1 Value Added Tax - As Submitted			5% of (G.1+H.1+I.1)	97.73
J.2 Value Added Tax - As Evaluated			5% of (G.2+H.2+I.2)	-
K.1 Total Unit Cost - As Submitted			(G.1+H.1+I.1+J.1)	2,052.40
K.2 Total Unit Cost - As Evaluated			(G.2+H.2+I.2+J.2)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV



## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Subgrade Preparation

Unit of Measurement : 5,877.00 sq.m

Output per hour-As Submitted : 300.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	2	1.00	45.16	90.31
A.1				
Sub-Total for A-1 As Submitted				171.26
Labor				
A.2				
Sub-Total for A-2 As Evaluated				-
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Motorized Road Grader	1	1.00	2,173.00	2,173.00
b. Vibratory Roller	1	1.00	1,846.00	1,846.00
c. Water Truck/Pump	1	0.25	2,450.00	612.50
B.1				
Sub-Total for B-1 As Submitted				4,631.50
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1 Total (A.1+B.1) - As Submitted				4,802.76
C.2 Total (A.2+B.2) - As Evaluated				-
D.1 Output per Hour - As Submitted				300.00
D.2 Output per Hour - As Evaluated				-
E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				16.01
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				-
				-
Sub-Total for F-1 As Submitted				-
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				16.01
G.2 Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			120%9%/7%/6% of G.1	1.60
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			120%9%/7%/6% of G.1	-
I.1 Contractor's Profit - As Submitted			10%/8% of G.1	1.28
I.2 Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1 Value Added Tax - As Submitted			5% of (G.1+H1+I1)	0.94
J.2 Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1 Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	19.84
K.2 Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

**Construction of By-Pass and Diversions**  
**ads Ipil Circumferential Road, (Don Andres - Magdau**  
**Zamboanga Sibugay**  
**DETAILED UNIT PRICE ANALYSIS**

FORM-POW-2015-01D-00

Item No./Description : Aggregate Subbase Course

Unit of Measurement : 8,894.00 cu.m

Output per hour-As Submitted : 50.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Laborer	2	1.00	45.16	90.31
				-
				-
				-
Sub-Total for A-1 As Submitted				171.26
Labor				
				-
				-
A.2				
Sub-Total for A-2 As Evaluated				-
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Motorized Road Grader	1	1.00	2,173.00	2,173.00
b. Vibratory Roller	1	1.00	1,846.00	1,846.00
c. Water Truck/Pump	1	0.25	2,450.00	612.50
Sub-Total for B-1 As Submitted				4,631.50
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				4,802.76
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				50.00
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				96.06
E.2				
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
Materials				
a. Aggregate Subbase Course	cu.m	1.15	1,242.30	1,428.65
				-
Sub-Total for F-1 As Submitted				1,428.65
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,524.70
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	152.47
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1				
Contractor's Profit - As Submitted			10%/8% of G.1	121.98
I.2				
Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1				
Value Added Tax - As Submitted			5% of (G.1+H1+I1)	89.96
J.2				
Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1				
Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	1,889.10
K.2				
Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

  
**JERALD R. BARRERA**  
 Engineer II

  
**ISIDRA A. ESTANISLAO**  
 Engineer IV



## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Gravel Surface Course

Unit of Measurement : 890.00 cu.m

Output per hour-As Submitted : 50.00

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Laborer	2	1.00	45.16	90.31
					-
					-
	Sub-Total for A-1 As Submitted				171.26
	Labor				
					-
A.2					
	Sub-Total for A-2 As Evaluated				-
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
B.1	a. Motorized Road Grader	1	1.00	2,173.00	2,173.00
	b. Vibratory Roller	1	1.00	1,846.00	1,846.00
	c. Water Truck/Pump	1	0.25	2,450.00	612.50
	Sub-Total for B-1 As Submitted				4,631.50
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				4,802.76
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				50.00
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 +D.1) - As Submitted				96.06
E.2	Direct Unit Cost (C.2 +D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Uncrushed Aggregate Surface Course	cu.m	1.15	1,106.30	1,272.25
F.1					
	Sub-Total for F-1 As Submitted				1,272.25
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1 +F.1) - As Submitted				1,368.30
G.2	Direct Unit Cost (E.2 +F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			120%9%/7%/6% of G.1	136.83
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			120%9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	109.46
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	80.73
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	1,695.32
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

Item No./Description : Portland Cement Concrete Pavement

Unit of Measurement : 1,670.00 sq.m

Output per hour-As Submitted : 107.33

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Skilled Laborer	4	1.00	58.61	234.44
	c. Laborer	12	1.00	45.16	541.88
					-
					-
	Sub-Total for A-1 As Submitted				857.26
	Labor				
A.2					-
	Sub-Total for A-2 As Evaluated				-
B.1	Equipment				
	a. Transit Mixer	4	1.00	1,318.00	5,272.00
	b. Concrete Vibrator	2	1.00	91.25	182.50
	c. Concrete Batch Plant	1	1.00	1,759.50	1,759.50
	d. Payloader	1	1.00	1,733.00	1,733.00
	e. Concrete Screeder	1	1.00	545.00	545.00
	f. Water Truck/Pump	1	1.00	2,450.00	2,450.00
	g. Concrete Saw	1	1.00	32.63	32.63
	h. Bar Cutter	1	0.10	219.75	21.98
	Minor Tools (5% of Labor)				42.86
	Sub-Total for B-1 As Submitted				12,039.47
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				12,896.73
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				107.33
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				120.16
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Reinforcing Steel Bar	kg	0.330	40.00	13.20
	b. Curing Compound	ltr	0.290	40.00	11.60
	c. Asphalt Sealant	ltr	0.120	75.00	9.00
	d. Steel Forms	m	0.460	40.00	18.40
	e. Sand	cu.m	0.083	1,306.30	107.77
	f. Gravel	cu.m	0.150	1,356.30	203.45
	g. Cement	bag	1.430	276.84	395.89
	h. Concrete Saw	pc	0.000	8,000.00	1.20
	i. Pipe Sleeve	m	0.008	133.00	1.04
	j. Grease/Tar	ltr	0.008	21.00	0.16
	Sub-Total for F-1 As Submitted				761.70
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-



G.1	Direct Unit Cost (E.1+F.1) - As Submitted		881.86
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated		-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted	12%/9%/7%/6% of G.1	88.19
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated	12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted	10%/8% of G.1	70.55
I.2	Contractor's Profit - As Evaluated	10%/8% of G.1	-
J.1	Value Added Tax - As Submitted	5% of (G.1+H1+I1)	52.03
J.2	Value Added Tax - As Evaluated	5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted	(G.1+H1+I1+J1)	1,092.63
K.2	Total Unit Cost - As Evaluated	(G.2+H2+I2+J1)	-

Prepared by:

  
**JERALD R. BARRERA**  
Engineer II

Checked/Reviewed

  
**ISIDRA A. ESTANISLAO**  
Engineer IV

**Construction of By-Pass and Diverge**      **ids Ipiil Circumferential Road, (Don Andres - Magdau**      **igil Section), Zamboanga Sibugay**  
**Zamboanga Sibugay**  
**DETAILED UNIT PRICE ANALYSIS**

FORM-POW-2015-01D-00

Item No./Description : Portland Cement Concrete Pavement

Unit of Measurement : 16,140.00 sq.m  
Output per hour-As Submitted : 57.50  
Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
<b>Labor</b>				
A.1				
a. Construction Foreman	1	1.00	80.95	80.95
b. Skilled Laborer	4	1.00	58.61	234.44
c. Laborer	12	1.00	45.16	541.88
				-
				-
Sub-Total for A-1 As Submitted				857.26
<b>Labor</b>				
				-
A.2				
Sub-Total for A-2 As Evaluated				-
<b>Equipment</b>				
a. Transit Mixer	4	1.00	1,318.00	5,272.00
b. Concrete Vibrator	2	1.00	91.25	182.50
c. Concrete Batch Plant	1	1.00	1,759.50	1,759.50
d. Payloader	1	1.00	1,733.00	1,733.00
e. Concrete Screeder	1	1.00	545.00	545.00
f. Water Truck	1	1.00	2,450.00	2,450.00
g. Concrete Saw	1	1.00	32.63	32.63
h. Bar Cutter	1	0.10	219.75	21.98
Minor Tools (5% of Labor Cost)				42.86
Sub-Total for B-1 As Submitted				12,039.47
<b>Equipment</b>				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				12,896.73
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				57.50
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 +D.1) - As Submitted				224.29
E.2				
Direct Unit Cost (C.2 +D.2) - As Evaluated				-
<b>Materials</b>				
a. Reinforcing Steel Bar	kg	0.50	40.00	20.00
b. Curing Compound	ltr	0.29	40.00	11.60
c. Asphalt Sealant	ltr	0.17	75.00	12.75
d. Steel Forms	m	0.46	40.00	18.40
e. Sand	cu.m	0.15	1,306.30	201.17
f. Gravel	cu.m	0.28	1,356.30	379.76
g. Cement	bag	2.66	276.84	736.40
h. Concrete Saw	pc	0.00	8,000.00	1.20
i. Pipe Sleeve	m	0.01	133.00	1.04
j. Grease/Tar	ltr	0.01	21.00	0.16
Sub-Total for F-1 As Submitted				1,382.49
<b>Materials</b>				
F.2				
Sub-Total for F-2 As Evaluated				-

G.1	Direct Unit Cost (E.1+F.1) - As Submitted		1,606.78
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated		-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted	12%/9%/7%/6% of G.1	160.68
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated	12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted	10%/8% of G.1	128.54
I.2	Contractor's Profit - As Evaluated	10%/8% of G.1	-
J.1	Value Added Tax - As Submitted	5% of (G.1+H1+I1)	94.80
J.2	Value Added Tax - As Evaluated	5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted	(G.1+H1+I1+J1)	1,990.80
K.2	Total Unit Cost - As Evaluated	(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

  
**JERALD R. BARRERA**  
 Engineer II

  
**ISIDRA A. ESTANISLAO**  
 Engineer IV



## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Reinforcing Steel (Grade 40)

Unit of Measurement : 6,674.00 kg

Output per hour-As Submitted : 180.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Skilled Laborer	2	1.00	58.61	117.22
c. Laborer	8	1.00	45.16	361.25
				-
				-
Sub-Total for A-1 As Submitted				559.42
Labor				
				-
				-
Sub-Total for A-2 As Evaluated				-
A.2				
Sub-Total for A-2 As Evaluated				
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Bar Cutter	1	0.50	219.50	109.75
b. Bar Bender	1	0.50	351.50	175.75
c. Cargo Truck	1	0.15	1,212.00	181.80
Sub-Total for B-1 As Submitted				467.30
Equipment				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				1,026.72
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				180.00
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 +D.1) - As Submitted				5.70
E.2				
Direct Unit Cost (C.2 +D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Tie Wire	kg	0.02	80.00	1.68
b. Reinforcing Steel Bar, Grade 40	kg	1.05	40.00	42.00
F.1				
Sub-Total for F-1 As Submitted				43.68
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				49.38
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	4.94
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1				
Contractor's Profit - As Submitted			10%/8% of G.1	3.95
I.2				
Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1				
Value Added Tax - As Submitted			5% of (G.1+H1+I1)	2.91
J.2				
Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1				
Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	61.19
K.2				
Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JERARD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV





## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Structural Concrete, Class A

Unit of Measurement : 168.00 cu.m

Output per hour-As Submitted : 1.40

Output per hour-As Evaluated :

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Skilled Laborer	4	1.00	58.61	234.44
c. Laborer	8	1.00	45.16	361.25
<i>Installation/Removal of Formworks</i>				
a. Skilled Laborer	4	1.00	58.61	234.44
b. Laborer	8	1.00	45.16	361.25
Sub-Total for A-1 As Submitted				1,272.32
Labor				
				-
				-
A.2				
Sub-Total for A-2 As Evaluated				-
Name and Capacity				
No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)	
Equipment				
a. One Bagger Mixer	1	1.00	172.00	172.00
b. Concrete Vibrator	1	1.00	91.25	91.25
c. Water Truck/Pump	1	0.10	2,450.00	245.00
Minor Tools (5% of Labor Cost)				63.62
Sub-Total for B-1 As Submitted				571.87
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted			1,844.19
C.2	Total (A.2+B.2) - As Evaluated			-
D.1	Output per Hour - As Submitted			1.40
D.2	Output per Hour - As Evaluated			-
E.1	Direct Unit Cost (C.1 +D.1) - As Submitted			1,317.28
E.2	Direct Unit Cost (C.2 +D.2) - As Evaluated			-
Name and Specification				
Unit	Quantity	Unit Cost	Amount (Php.)	
Materials				
a. Lumber, Good	bd.ft	17.50	40.00	700.00
b. Marine Plywood	pc	0.40	795.00	318.00
F.1				
c. Assorted CWN	kg	0.70	65.00	45.50
d. Cement	bag	9.50	276.84	2,630.01
e. Sand	cu.m	0.50	1,306.30	653.15
f. Gravel	cu.m	1.00	1,356.30	1,356.30
Sub-Total for F-1 As Submitted				5,702.96
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted			7,020.24
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated			-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted	12%/9%/7%/6% of G.1		702.02
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated	12%/9%/7%/6% of G.1		-
I.1	Contractor's Profit - As Submitted	10%/8% of G.1		561.62
I.2	Contractor's Profit - As Evaluated	10%/8% of G.1		-
J.1	Value Added Tax - As Submitted	5% of (G.1+H1+I1)		414.19
J.2	Value Added Tax - As Evaluated	5% of (G.2+H2+I2)		-
K.1	Total Unit Cost - As Submitted	(G.1+H1+I1+J1)		8,698.08
K.2	Total Unit Cost - As Evaluated	(G.2+H2+I2+J1)		-

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV



## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Lean Concrete for RCBC

Unit of Measurement : 5.00 cu.m

Output per hour-As Submitted : 1.40

Output per hour-As Evaluated :

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Skilled Laborer	4	1.00	58.61	234.44
	c. Laborer	8	1.00	45.16	361.25
Sub-Total for A-1 As Submitted					
Labor					
Sub-Total for A-1 As Submitted					
676.64					
A.2	Labor				
Sub-Total for A-2 As Evaluated					
-					
B.1	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	a. One Bagger Mixer	1	1.00	172.00	172.00
	b. Concrete Vibrator	1	1.00	91.25	91.25
	c. Water Truck/Pump	1	0.10	2,450.00	245.00
	Minor Tools (5% of Labor Cost)				33.83
	Sub-Total for B-1 As Submitted				542.08
B.2	Equipment				
Sub-Total for B-2 As Evaluated					
-					
Total (A.1+B.1) - As Submitted					
1,218.72					
Total (A.2+B.2) - As Evaluated					
-					
Output per Hour - As Submitted					
1.40					
Output per Hour - As Evaluated					
-					
Direct Unit Cost (C.1 ÷ D.1) - As Submitted					
870.51					
Direct Unit Cost (C.2 ÷ D.2) - As Evaluated					
-					
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Lumber, Good	bd.ft	17.50	40.00	700.00
	b. Marine Plywood	pc	0.40	795.00	318.00
	c. Assorted CMN	kg	0.70	65.00	45.50
	d. Cement	bag	9.50	276.84	2,630.01
	e. Sand	cu.m	0.50	1,306.30	653.15
F.2	f. Gravel	cu.m	1.00	1,356.30	1,356.30
	Sub-Total for F-1 As Submitted				5,702.96
	Materials				
Sub-Total for F-2 As Evaluated					
-					
Direct Unit Cost (E.1+F.1) - As Submitted					
6,573.48					
Direct Unit Cost (E.2+F.2) - As Evaluated					
-					
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted					
2%/9%/7%/6% of G.1					
657.35					
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated					
2%/9%/7%/6% of G.1					
-					
Contractor's Profit - As Submitted					
10%/8% of G.1					
525.88					
Contractor's Profit - As Evaluated					
10%/8% of G.1					
-					
Value Added Tax - As Submitted					
5% of (G.1+H1+I1)					
387.84					
Value Added Tax - As Evaluated					
5% of (G.2+H2+I2)					
-					
Total Unit Cost - As Submitted					
(G.1+H1+I1+J1)					
8,144.54					
Total Unit Cost - As Evaluated					
(G.2+H2+I2+J1)					
-					

Prepared by:

Checked/Reviewed

JERALD R. BARRENA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Pipe Culvert & Storm Drain

Unit of Measurement : 14.00 m.m

Output per hour-As Submitted : 1.00

Output per hour-As Evaluated : -

Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
Labor				
a. Construction Foreman	1	1.00	80.95	80.95
b. Skilled Laborer	2	1.00	58.61	117.22
c. Laborer	4	1.00	45.16	180.63
Sub-Total for A-1 As Submitted				378.79
Labor				
A.2				
Sub-Total for A-2 As Evaluated				-
Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Equipment				
a. Backhoe	1	0.29	1,537.00	445.73
b. Plate Compactor	1	0.29	123.00	35.67
Minor Tools (10% of Labor Cost)				37.88
Sub-Total for B-1 As Submitted				519.28
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				898.07
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				1.00
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 +D.1) - As Submitted				898.07
E.2				
Direct Unit Cost (C.2 +D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Portland Cement	bag	1.08	276.84	298.99
b. Sand	cu.m	0.06	1,306.30	79.68
c. RC Pipes (910 mm dia.)	pc	1.00	1,911.00	1,911.00
d. Sand Bedding/Selected Sandy Soil	cu.m	0.13	1,306.30	167.21
Sub-Total for F-1 As Submitted				2,456.88
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				3,354.95
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	335.50
H.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1				
Contractor's Profit - As Submitted			10%/8% of G.1	268.40
I.2				
Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1				
Value Added Tax - As Submitted			5% of (G.1+H1+I1)	197.94
J.2				
Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1				
Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	4,156.79
K.2				
Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV







## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Stone Masonry

Unit of Measurement : 9.00 cu.m

Output per hour-As Submitted : 1.60

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Skilled Laborer	2	1.00	58.61	117.22
	c. Laborer	8	1.00	45.16	361.25
	Sub-Total for A-1 As Submitted				559.42
	Labor				
A.2					-
	Sub-Total for A-2 As Evaluated				-
B.1	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	a. One Bagger Mixer	1	1.00	172.00	172.00
	b. Water Truck/Pump	1	0.05	2,450.00	122.50
	c. Backhoe	1	0.10	1,537.00	153.70
	Minor Tools (10% of Labor Cost)				55.94
	Sub-Total for B-1 As Submitted				504.14
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				1,063.56
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				1.60
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				664.73
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Portland Cement	bag	2.50	276.84	692.11
	b. Sand	cu.m	0.21	1,306.30	274.32
	c. Gravel Fill	cu.m	0.02	1,356.30	20.34
	d. Weep Holes	m	0.30	133.00	39.90
	e. Filter Cloth	sq.m	0.02	160.00	2.40
	f. Boulder	cu.m	1.05	1,406.30	1,476.62
	Miscellaneous (1% of Materials Cost)				25.06
	Sub-Total for F-1 As Submitted				2,530.75
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				3,195.47
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	319.55
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	255.64
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	188.53
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	3,959.19
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : ReflectORIZED Thermoplastic Pavement Markings White

Unit of Measurement : 570.00 sq.m

Output per hour-As Submitted : 25.00

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Skilled Laborer	2	1.00	58.61	117.22
	c. Laborer	6	1.00	45.16	270.94
	Sub-Total for A-1 As Submitted				469.11
	Labor				
					-
					-
A.2					
	Sub-Total for A-2 As Evaluated				-
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1	Equipment				
	a. Cargo Truck/Delivery Truck	1	1.00	1,212.00	1,212.00
	b. Applicator Machine	1	1.00	93.75	93.75
	c. Kneading Machine	1	1.00	187.50	187.50
	Minor Tools (10% of Labor Cost)				46.91
	Sub-Total for B-1 As Submitted				1,540.16
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				2,009.27
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				25.00
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				80.37
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Thermoplastic Paint (White)	bag	0.33	1,585.00	515.13
	b. Glass Beads	bag	0.03	2,500.00	82.50
	c. Primer	ltr	0.12	180.00	21.60
	d. LPG (50kg)	cyl	0.00	90.00	0.36
	e. LPG (12 kg)	cyl	0.00	50.00	0.10
	f. Calsumine	kg	0.13	5.00	0.63
	Miscellaneous (5% of Materials Cost)				31.02
	Sub-Total for F-1 As Submitted				651.33
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				731.70
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	73.17
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	58.54
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	43.17
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	906.57
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISTDRA A. ESTANISLAO

Engineer IV







## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description	:	Separation Geotextile
Unit of Measurement	:	17,107.00 sq.m
Output per hour-As Submitted	:	100.00
Output per hour-As Evaluated	:	-

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Skilled Laborer	2	1.00	58.61	117.22
	c. Laborer	8	1.00	45.16	361.25
	Sub-Total for A-1 As Submitted				559.42
	Labor				
A.2					-
	Sub-Total for A-2 As Evaluated				
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1	Equipment				
	a. Cargo Truck	1	0.25	1,212.00	303.00
	Minor Tools (10% of Labor Cost)				55.94
	Sub-Total for B-1 As Submitted				358.94
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				918.36
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				100.00
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				9.18
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Geotextiles	sq.m	1.05	160.00	168.00
	Miscellaneous (5% of Materials)				8.40
	Sub-Total for F-1 As Submitted				176.40
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				185.58
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	18.56
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	14.85
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	10.95
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	229.94
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JEFFALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV





## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Coconet Bio-Engineering Solutions (Cocologs/Fascine)

Unit of Measurement : 370.00 In.m

Output per hour-As Submitted : 15.00

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Laborer	8	1.00	45.16	361.25
	Sub-Total for A-1 As Submitted				442.20
	Labor				
					-
A.2					
	Sub-Total for A-2 As Evaluated				-
B.1	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	Minor Tools (10% of Labor Cost)				44.22
	Sub-Total for B-1 As Submitted				44.22
B.2	Equipment				
C.1	Sub-Total for B-2 As Evaluated				
	Total (A.1+B.1) - As Submitted				486.42
	Total (A.2+B.2) - As Evaluated				-
C.2					
D.1	Output per Hour - As Submitted				15.00
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 +D.1) - As Submitted				32.43
E.2	Direct Unit Cost (C.2 +D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Coco Fiber Roll (CGR 200)	m	0.00	445.00	-
	Sub-Total for F-1 As Submitted				-
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1 +F.1) - As Submitted				32.43
G.2	Direct Unit Cost (E.2 +F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	3.24
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	2.59
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	1.91
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	40.18
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV



## DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Coconet Bio-Engineering Solutions (Vegetation)

Unit of Measurement : 2,155.00 sq.m

Output per hour-As Submitted : 62.50

Output per hour-As Evaluated : -

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Laborer	2	1.00	45.16	90.31
	Sub-Total for A-1 As Submitted				171.26
	Labor				
A.2					-
	Sub-Total for A-2 As Evaluated				-
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1	Equipment				
	a. Hydroseeding Machine	1	1.00	952.00	952.00
	b. Water Truck/Pump	1	1.00	2,450.00	2,450.00
	Sub-Total for B-1 As Submitted				3,402.00
	Equipment				
B.2					
	Sub-Total for B-2 As Evaluated				
C.1	Total (A.1+B.1) - As Submitted				3,573.26
C.2	Total (A.2+B.2) - As Evaluated				-
D.1	Output per Hour - As Submitted				62.50
D.2	Output per Hour - As Evaluated				-
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				57.17
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Grass Cover	sq.m	0.00	98.00	-
	Sub-Total for F-1 As Submitted				-
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				57.17
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			12%/9%/7%/6% of G.1	5.72
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	-
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	4.57
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	-
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	3.37
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	-
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	70.84
K.2	Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

  
JERALD R. BARBERA  
Engineer II

Checked/Reviewed

  
ISIDRA A. ESTANISLAO  
Engineer IV

## UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

### Hauling Cost from the District Office to Site

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

Hauling	:	Using 10.00 cu.m. capacity Dumptruck		
		Weight of Dumptruck (cap. 10.00 cu.m.)	:	16,000.00 kgs
		Unit Weight of Fine Aggregates	:	1,640.00 kg/cu.m.
		Unit Weight of Course Aggregates	:	1,534.00 kg/cu.m.
		Maximum Volumeto be Carried per DT	:	11.57 cu.m.

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

Speed when loaded	:	30.00 kph
Speed when unloaded	:	40.00 kph

Loaded Running	=	$\frac{5.00}{30.00} \times \frac{60.00}{1}$	=	10	mins.
Unloaded Running	=	$\frac{5.00}{40.00} \times \frac{60.00}{1}$	=	7.5	mins.

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

No. of trips for Dumptruck per day	=	$\frac{8.00}{22.50} \times \frac{60.00}{1}$	=	21.33	trips
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Dumptruck Daily Output	=	10.00	X	21.33	=	213.33	cu.m.
Using 4 Dumptruck	=	213.33	X	4.00	=	853.33	cu.m.

No. of Days for Dumptruck	=	$\frac{1,000.00}{853.33}$	=	1.17	days
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#### EQUIPMENT USED: (2009 ACEL RATES)

4.00 - Unit Dumptruck	@	P	10,816.00	/	day	X	1.17 days	=	P	50,700.00
Estimated Quantity	=		1,000.00	cu.m.						
Unit Cost	P		10.14	/cu.m/km. (unit cost hauling per cu.m. per km.)						
Grand Total	P		50,700.00							
Equipment	P		50,700.00							
Labor	P									
Equipment	P									

#### ZAMBOANGA SIBUGAY 2nd DEO (using 3rd Quarter 2018)

	Hauling Distance	Unit Cost per cu.m/km	Hauling Cost per km.	Unit Price	Unit cost per cu.m.
Cost of Fine Aggregates	45.00	X 10.14	= 456.30	+	850.00 = 1,306.30
Cost of Coarse Aggregates	45.00	X 10.14	= 456.30	+	900.00 = 1,356.30
Cost of Item 200 Materials	45.00	X 10.14	= 456.30	+	786.00 = 1,242.30
Cost of Item 201 Materials	45.00	X 10.14	= 456.30	+	690.00 = 1,146.30
Cost of Item 300 Materials	45.00	X 10.14	= 456.30	+	650.00 = 1,106.30
Cost of Boulders	45.00	X 10.14	= 456.30	+	950.00 = 1,406.30
Cost of Embankment, Common Borrow	10.00	X 10.14	= 101.40	+	272.00 = 373.40
Cost of Embankment, Selected Borrow	10.00	X 10.14	= 101.40	+	392.00 = 493.40

## UNIT COST DERIVATION FOR PORTLAND CEMENT

### TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

Description	Quantity (Bags)
Portland Cement Concrete Pavement	2,388.10
Portland Cement Concrete Pavement	42,932.40
Structural Concrete, Class A	1,596.00
Lean Concrete for RCBC	47.50
Pipe Culvert & Storm Drain	15.12
Reinforced Concrete Culverts Pipe, 610 mm dia	-
Grouted Riprap, Class "A"	175.00
Stone Masonry	22.50
Manhole	
Concrete Cover	
Concrete Curb & Gutter	
Sidewalk	
Informatory Signs	
Concrete Structure (Lean Concrete)	665.00
<b>TOTAL</b>	<b>47,841.62</b>

Quantity = 47,841.62 Bags

Delivery Charge = P 0.12 /bag/km

SITE	HAULING DISTANCE
Zamboanga Sibugay 2nd DEO	
PROJECT SITE	50.00

\* Average Hauling Distance from source to assumed stockpiling area:  
say 50.00 km.

Delivery Charge = P 0.12 X 50.00  
Delivery Charge = P 6.00 /bag

\* Delivery Truck : 47,841.62 bags (hauling works)  
20,000.00 kgs., (capacity per haul)  
500.00 bags, (capacity per haul)

\* Capacity of Laborers unloading bags of Cement from Delivery Truck:  
Assume 10 laborers can unload 500.00 bags of Cement  
\*Dumpruck (10 Wheeler) days computation : **TIME - MOTION ANALYSIS**  
Speed when loaded : 30.00 kph  
Speed when unloaded : 40.00 kph

Loaded Running =  $\frac{50.00 \times 60.00}{30.00}$  = 100 mins.

Unloading Running =  $\frac{50.00 \times 60.00}{40.00}$  = 75 mins.

Loading & Unloading = 45.00 mins.

Capacity of Dumpruck = 8.00 cu.m.

500.00 bags

Total Cycle Time = 220.00 mins.



$$\text{No. of trips for Dumptruck per day} = \frac{8.00 \times 60.00}{220.00} = 2.18 \text{ trips}$$

$$\begin{aligned} \text{Dumptruck Daily Output} &= 500.00 \times 2.18 = 1,090.91 \text{ cu.m.} \\ \text{Using 4 Dumptruck} &= 1,090.91 \times 4.00 = 4,363.64 \text{ cu.m.} \end{aligned}$$

$$\text{No. of Days for Dumptruck} = \frac{47,841.62}{4,363.64} = 10.96 \text{ days}$$

$$\begin{aligned} \text{No. of Days for Labor for unloading} &= \text{complimentary to D.Truck days} = 10.96 \text{ days} \end{aligned}$$

#### DELIVERY COST:

$$47,841.62 \text{ Bags, Portland Cement} @ \text{ P } 6.00 \text{ /bag} = \text{P } \underline{287,049.72}$$

**Sub-total 287,049.72**

#### LABOR:

$$\begin{aligned} 1 \text{ Foreman} & @ \text{ P } 558.00 \text{ /day} \times 10.96 \text{ days} = \text{P } 6,117.75 \\ 10 \text{ Laborers} & @ \text{ P } 312.24 \text{ /day} \times 10.96 \text{ days} = \text{P } 34,233.07 \\ \text{Sub-total} & = \underline{40,350.82} \end{aligned}$$

#### MATERIALS:

$$47,841.62 \text{ Bags, Portland Cement} @ \text{ P } 270.00 \text{ /bag} = \text{P } \underline{12,917,237.40}$$

**Sub-total 12,917,237.40**

Estimated Quantity : 47,841.62 Bags

Unit Cost	P	276.84
Grand Total	P	13,244,637.94
Delivery Cost	P	287,049.72
Labor	P	40,350.82
Materials	P	12,917,237.40