



(IMPLEMENTING OFFICE)

PROGRAM OF WORK/BUDGET COST

FORM POW-2015-01-00

Project : Road Widening - Primary Roads - Dipolog - Punta - Dansullan - Sergio Osmeña Zamboanga del Norte/Sur Boundary

Project ID : _____

Location : Zamboanga del Norte

Station Limits : K1868+158.00 - K1872+975.00

Source of Funds : CY-2019

Net Length : (a) Road 4,817.00 In.m 4.82 km

(b) Brdg _____

(c) Other _____

Target Start Date : _____

Total Project Duration : 171 Calendar Days

No. of Pre-determined : 38 Calendar Days

Unworkable Days : 19 Calendar Days

DESCRIPTION OF WORKS TO BE DONE	QUANTITY	UNIT	AS SUBMITTED		AS EVALUATED	
			% TOTAL	TOTAL DIRECT COST	% TOTAL	TOTAL DIRECT COST
PART A: Facilities for the Engineers			1.12%	1,204,376.50		
B: Other General Requirements			0.66%	713,826.36		
C: Earthworks			13.93%	14,960,584.73		
D: Subbase and Base Course			28.15%	30,220,687.59		
E: Surface Courses			54.44%	58,446,587.68		
F: Bridge Construction			0.00%	-		
G: Drainage and Slope Protection Structures			0.87%	935,713.65		
H: Miscellaneous Structure			0.82%	880,962.19		
I: Provisional Sum			0.00%	-		
J: Daywork			0.00%	-		

EQUIPMENT:

DESCRIPTION	REQUIRED
(PLS. SEE FORM POW-2015-01B-00)	

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	1,255,461.74	
2. Materials	82,051,735.74	
3. Rental of Equipment	24,055,541.22	
4. Provisional Sum/Daywork	-	
5. OCM and Profit	19,091,929.82	
6. Value Added Tax	6,322,733.43	
7. EAO, 3.5%	4,647,209.07	
8. RROW Acquisition	11,972,598.04	
9. Physical Reseved (Contingency)	602,790.93	
10. TOTAL ESTIMATED COST	150,000,000.00	

150,000,000.00

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	107,362,738.71	
B. OCM and Profit	19,091,929.82	
C. Value Added Tax	6,322,733.43	
D. Total Construction Cost	-	
E. Eng'g. & Administrative Overhead	4,647,209.07	
F. RROW Acquisition	11,972,598.04	
G. Physical Reserved (Contingency)	602,790.93	
H. TOTAL ESTIMATED COST	150,000,000.00	

Preparation and Submission:

Prepared by:


JERALD R. BARRERA

Engineer II

DPWH RO9

Checked/Submiietd by:



ISIDRA A. ESTANISLAO

Engineer IV

DPWH RO9

Evaluation:

Reviewed by:


SATURNINO C. TORREFRANCA

District Engineer

DPWH RO9

Approval:

Recommending Approval


KHADAFFY D. TANGGOL

OIC-Assistant Regional Director

DPWH RO9

Approved:


CAYAMBALAO D. DIA

Regional Director

DPWH RO9



Road Widening - Primary Roads - Dipolog - Punta - Sultan - Sergio Osmeña Zamboanga del Norte/Sur Boundary
Zamboanga del Norte

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	
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		0.45%
A.1.1 (11)	Prov. Of Furniture, Equipment, & Appliance for Field Engineer	1.00		ls	322,909.69		322,909.69		339,055.17		0.30%
A.1.2 (5)	Operation & Maintenance of Gov't. Service Vehicles	1.00		ls	394,451.18		394,451.18		414,173.74		0.37%
	TOTAL OF PART A				1,204,376.50						1.12%
PART B	Other General Requirements										
B.4(1)	Construction Survey and Staking	4.82		krm	44,894.15		9,319.94		11,547.41		0.04%
B.5	Project Billboard	4.00		unit	7,831.93		1,957.98		2,425.94		0.01%
B.7	Occupational Safety & Health Program	1.00		ls	184,498.29		184,498.29		209,221.06		0.17%
B.9	Mobilization & Demobilization	1.00		ls	476,602.00		476,602.00		500,432.10		0.44%
	TOTAL OF PART B				713,826.36						0.66%
PART C	Earthworks										
101(2)	Removal of Existing Headwall	24.00		each	8,706.05		362.75		449.45		0.01%
102(2)	Surplus Common Excavation	84,509.00		cu.m	11,994,697.77		141.93		175.86		11.17%
103(3)	Foundation Fill	38.50		cu.m	71,365.61		1,853.65		2,296.67		0.07%
103(6)a	Pipe Culverts and Drain Excavation	43.00		cu.m	9,922.38		230.75		285.90		0.01%
104(1a)	Embankment from Roadway Excavation	8,931.50		cu.m	2,049,065.14		229.42		284.25		1.91%
105(1a)	Subgrade Preparation	51,647.00		sq.m	826,827.80		16.01		19.84		0.77%
	TOTAL OF PART C				14,960,584.73						13.93%
PART D	Subbase and Base Course										
200(1)	Aggregate Subbase Course	18,870.00		cu.m	30,220,687.59		1,601.52		1,984.28		28.15%
	TOTAL OF PART D				30,220,687.59						28.15%
PART E	Surface Courses										
300(1)	Gravel Surface Course	2,384.00		cu.m	4,160,724.34		1,745.27		2,162.39		3.88%
311(1e1)	Portland Cement Concrete Pavement	32,273.50		sq.m	54,285,863.34		1,682.06		2,084.07		50.56%
	TOTAL OF PART E				58,446,587.68						54.44%
PART G	Drainage and Slope Protection Structures										
500(1)b3	Pipe Culvert & Storm Drain	114.00		ln.m	369,923.13		3,244.94		4,020.48		0.34%
505(5)	Grouted Riprap, Class "A"	50.00		cu.m	178,980.77		3,579.62		4,435.14		0.17%
506(1)	Stone Masonry	110.00		cu.m	386,809.75		3,516.45		4,356.88		0.36%
	TOTAL OF PART G				935,713.65						0.87%
PART H	Miscellaneous Structure										
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	1,204.00		sq.m	880,962.19		731.70		906.57		0.82%
	TOTAL OF PART H				880,962.19						0.82%
	GRAND TOTAL				107,362,738.71						100.00%



Road Widening - Primary Roads - Dipolog - Punta Isulan - Sergio Osmeña Zamboanga del Norte/Sur Boundary
Zamboanga del Norte

FORM POW-2015-018-00

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							

200(1)	Aggregate Subbase Course	AS EVALUATED											
		AS SUBMITTED	28.15%	18,870.00	cu.m	28,408,124.55	64,634.94	1,747,928.10	30,220,687.59	18.00%	5,439,723.77	1,783,020.57	37,443,431.92
	TOTAL OF PART D	AS EVALUATED											
		AS SUBMITTED	28.15%			28,408,124.55	64,634.94	1,747,928.10	30,220,687.59		5,439,723.77	1,783,020.57	37,443,431.92
PART E	Surface Courses												
300(1)	Gravel Surface Course	AS EVALUATED											
		AS SUBMITTED	3.88%	2,384.00	cu.m	3,931,728.56	8,165.86	220,829.92	4,160,724.34	18.00%	748,930.38	245,482.74	5,155,137.45
311(1e1)	Portland Cement Concrete Pavement	AS EVALUATED											
		AS SUBMITTED	50.56%	32,273.50	sq.m	47,047,209.54	481,162.10	6,757,491.70	54,285,863.34	18.00%	9,771,455.40	3,202,865.94	67,260,184.68
	TOTAL OF PART E	AS EVALUATED											
		AS SUBMITTED	54.44%			50,978,938.10	489,327.96	6,978,321.62	58,446,587.68		10,520,385.78	3,448,348.67	72,415,322.13
PART G	Drainage and Slope Protection Structures												
500(1)b3	Pipe Culvert & Storm Drain	AS EVALUATED											
		AS SUBMITTED	0.34%	114.00	ln.m	267,542.80	43,182.49	59,197.85	369,923.13	18.00%	66,586.16	21,825.46	458,334.76
505(5)	Grouted Riprap, Class "A"	AS EVALUATED											
		AS SUBMITTED	0.17%	50.00	cu.m	142,586.34	22,376.75	14,017.68	178,980.77	18.00%	32,216.54	10,559.87	221,757.17
506(1)	Stone Masonry	AS EVALUATED											
		AS SUBMITTED	0.36%	110.00	cu.m	313,689.96	38,460.04	34,659.75	386,809.75	18.00%	69,625.76	22,821.78	479,257.28
	TOTAL OF PART G	AS EVALUATED											
		AS SUBMITTED	0.87%			723,819.10	104,019.28	107,875.28	935,713.65		168,428.46	55,207.11	1,159,349.22
PART H	Miscellaneous Structure												
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	AS EVALUATED											
		AS SUBMITTED	0.82%	1,204.00	sq.m	784,195.90	22,592.16	74,174.14	880,962.19	18.00%	158,573.20	51,976.77	1,091,512.16
	TOTAL OF PART H	AS EVALUATED											
		AS SUBMITTED	0.82%			784,195.90	22,592.16	74,174.14	880,962.19		158,573.20	51,976.77	1,091,512.16
	GRAND TOTAL	AS EVALUATED											
		AS SUBMITTED	100.00%			82,051,735.74	1,255,461.74	24,055,541.22	107,362,738.71		19,091,929.82	6,322,733.43	132,777,401.96



REGION IX

Road Widening - Primary Roads - Dipolog - Punta - Dansullan - Sergio Osmeña Zamboanga del Norte/Sur Boundary

Zamboanga del Norte

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	1,204,376.50		87,662.81	64,601.97	152,264.78	1,356,641.28
PART B	Other General Requirements	AS EVALUATED						
		AS SUBMITTED	713,826.36		24,250.56	36,903.85	61,154.40	774,980.77
PART C	Earthworks	AS EVALUATED						
		AS SUBMITTED	14,960,584.73		2,692,905.25	882,674.50	3,575,579.75	18,536,164.48
PART D	Subbase and Base Course	AS EVALUATED						
		AS SUBMITTED	30,220,687.59		5,439,723.77	1,783,020.57	7,222,744.33	37,443,431.92
PART E	Surface Courses	AS EVALUATED						
		AS SUBMITTED	58,446,587.68		10,520,385.78	3,448,348.67	13,968,734.45	72,415,322.13
PART G	Drainage and Slope Protection Structures	AS EVALUATED						
		AS SUBMITTED	935,713.65		168,428.46	55,207.11	223,635.56	1,159,349.22
PART H	Miscellaneous Structure	AS EVALUATED						
		AS SUBMITTED	880,962.19		158,573.20	51,976.77	210,549.96	1,091,512.16
TOTAL		AS EVALUATED						
		AS SUBMITTED	107,362,738.71		19,091,929.82	6,322,733.43	25,414,663.25	132,777,401.96

Preparation and Submission:

Prepared by:

JERALD R. BARRERA

Engineer II
DPWH RO9

Checked/Submited by:

ISIDRA A. ESTANISLAO

Engineer IV
DPWH RO9

Evaluation:

Reviewed by:

SATURNINO C. TORREFRANCA

District Engineer
DPWH RO9

Approval:

Recommending Approval

KHADAFFY D. TANGGOL

OIC-Assistant Regional Director
DPWH RO9

Approved:

CAYANOMBABO D. DIA

Regional Director
DPWH RO9



Road Widening - Primary Roads - Dipolog - Punta - Consullan - Sergio Osmeña Zamboanga del Norte/Sur Boundary
Zamboanga del Norte

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				
PART A	Facilities for the Engineers										
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	322,909.69	0.00%	-	16,145.48	16,145.48	339,055.17	339,055.17
A.1.2 (5)	Operation & Maintenance of Gov't. Service Vehicles	AS EVALUATED									
		AS SUBMITTED	1.00	ls	394,451.18	0.00%	-	19,722.56	19,722.56	414,173.74	414,173.74
	TOTAL OF PART A	AS EVALUATED									
		AS SUBMITTED			1,204,376.50		87,662.81	64,601.97	152,264.78	1,356,641.28	
PART B	Other General Requirements										
B.4(1)	Construction Survey and Staking	AS EVALUATED									
		AS SUBMITTED	4.82	km	44,894.15	18.00%	8,080.95	2,648.75	10,729.70	55,623.85	11,547.41
B.5	Project Billboard	AS EVALUATED									
		AS SUBMITTED	4.00	unit	7,831.93	18.00%	1,409.75	462.08	1,871.83	9,703.76	2,425.94
B.7	Occupational Safety & Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	ls	184,498.29	8.00%	14,759.86	9,962.91	24,722.77	209,221.06	209,221.06
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
	TOTAL OF PART B	AS EVALUATED			-						
		AS SUBMITTED			713,826.36		24,250.56	36,903.85	61,154.40	774,980.77	
PART C	Earthworks										
101(2)	Removal of Existing Headwall	AS EVALUATED									
		AS SUBMITTED	24.00	each	8,706.05	18.00%	1,567.09	513.66	2,080.74	10,786.79	449.45
102(2)	Surplus Common Excavation	AS EVALUATED									
		AS SUBMITTED	84,509.00	cu.m	11,994,697.77	18.00%	2,159,045.60	707,687.17	2,866,732.77	14,861,430.53	175.86
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	38.50	cu.m	71,365.61	18.00%	12,845.81	4,210.57	17,056.38	88,421.99	2,296.67
103(6)a	Pipe Culverts and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	43.00	cu.m	9,922.38	18.00%	1,786.03	585.42	2,371.45	12,293.83	285.90
104(1a)	Embankment from Roadway Excavation	AS EVALUATED									
		AS SUBMITTED	8,931.50	cu.m	2,049,065.14	18.00%	368,831.72	120,894.84	489,726.57	2,538,791.70	284.25
105(1a)	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	51,647.00	sq.m	826,827.80	18.00%	148,829.00	48,782.84	197,611.84	1,024,439.64	19.84
	TOTAL OF PART C	AS EVALUATED			-						
		AS SUBMITTED			14,960,584.73		2,692,905.25	882,674.50	3,575,579.75	18,536,164.48	
PART D	Subbase and Base Course										
200(1)	Aggregate Subbase Course	AS EVALUATED									
		AS SUBMITTED	18,870.00	cu.m	30,220,687.59	18.00%	5,439,723.77	1,783,020.57	7,222,744.33	37,443,431.92	1,984.28
	TOTAL OF PART D	AS EVALUATED			-						
		AS SUBMITTED			30,220,687.59		5,439,723.77	1,783,020.57	7,222,744.33	37,443,431.92	

PART E	Surface Courses										
300(1)	Gravel Surface Course	AS EVALUATED									
		AS SUBMITTED	2,384.00	cu.m	4,160,724.34	18.00%	748,930.38	245,482.74	994,413.12	5,155,137.45	2,162.39
311(1e1)	Portland Cement Concrete Pavement	AS EVALUATED									
		AS SUBMITTED	32,273.50	sq.m	54,285,863.34	18.00%	9,771,455.40	3,202,865.94	12,974,321.34	67,260,184.68	2,084.07
	TOTAL OF PART E	AS EVALUATED			-						
		AS SUBMITTED			58,446,587.68		10,520,385.78	3,448,348.67	13,968,734.45	72,415,322.13	
PART G	Drainage and Slope Protection Structures										
500(1)b3	Pipe Culvert & Storm Drain	AS EVALUATED									
		AS SUBMITTED	114.00	ln.m	369,923.13	18.00%	66,586.16	21,825.46	88,411.63	458,334.76	4,020.48
505(5)	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	50.00	cu.m	178,980.77	18.00%	32,216.54	10,559.87	42,776.40	221,757.17	4,435.14
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	110.00	cu.m	386,809.75	18.00%	69,625.76	22,821.78	92,447.53	479,257.28	4,356.88
	TOTAL OF PART G	AS EVALUATED			-						
		AS SUBMITTED			935,713.65		168,428.46	55,207.11	223,635.56	1,159,349.22	
PART H	Miscellaneous Structure										
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	AS EVALUATED									
		AS SUBMITTED	1,204.00	sq.m	880,962.19	18.00%	158,573.20	51,976.77	210,549.96	1,091,512.16	906.57
	TOTAL OF PART H	AS EVALUATED			-						
		AS SUBMITTED			880,962.19		158,573.20	51,976.77	210,549.96	1,091,512.16	
	GRAND TOTAL	AS EVALUATED			-						
		AS SUBMITTED			107,362,738.71		19,091,929.82	6,322,733.43	25,414,663.25	132,777,401.96	

Preparation and Submission:

Prepared by:


JERALD R. BARRERA
 Engineer II
 Construction Division

Checked/Submited by:


ISIDRA A. ESTANISLAO
 Engineer IV
 Maintenance Division

Evaluation:

Reviewed by:


SATURNINO C. TORRE FRANCA
 District Engineer
 Planning & Design Division

Item No./Description : Const. of Field Office for the Enigneer

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.)
Labor				
A.1				
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
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. 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				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1				
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			12%/9%/7%/6% of G.1	45,628.33
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	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)	-

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

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 (Php.)
A.1				
Labor				
Sub-Total for A-1 As Submitted				-
A.2				
Labor				
Sub-Total for A-2 As Evaluated				
B.1				
Equipment	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
Sub-Total for B-1 As Submitted				-
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				
Materials	Unit	Quantity	Unit Cost	Amount (Php.)
a. Office Equipment/Facilities & Supplies	lumpsum	1	322,909.69	322,909.69
Sub-Total for F-1 As Submitted				322,909.69
F.2				
Equipment				
Sub-Total for F-2 As Evaluated				
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				322,909.69
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			10%/8% of G.1	-
Contractor's Profit - As Evaluated			5% of (G.1+H1+I1)	16,145.48
J.1			5% of (G.1+H1+I1)	-
Value Added Tax - As Submitted			5% of (G.2+H2+I2)	-
J.2			5% of (G.2+H2+I2)	-
Value Added Tax - As Evaluated			(G.1+H1+I1+J1)	339,055.17
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


JERARD R. BARRERA
Engineer II


ISIDRA A. ESTANISLAO
Engineer IV

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.)
A.1				
Labor				
a. Service Driver	1	912	58.61	53,451.18
Sub-Total for A-1 As Submitted				53,451.18
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				
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				53,451.18
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				53,451.18
E.2 Direct Unit Cost (C.2 +D.2) - As Evaluated				-
F.1				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
a. Diesel Fuel	ltrs	3,420.00	50.00	171,000.00
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				341,000.00
Equipment				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				394,451.18
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)	19,722.56
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)	414,173.74
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 : Construction Survey and Staking

Unit of Measurement : 4.82 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.1				-
C.2				1.00
D.1				-
D.2				29,144.15
E.1				-
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	40	200.00	8,000.00
b. Blue Printing	pcs	175	40.00	7,000.00
Miscellaneous (5% of Materials)				750.00
Sub-Total for F-1 As Submitted				15,750.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				44,894.15
G.2				-
Direct Unit Cost (E.1+F.1) - As Submitted				
Direct Unit Cost (E.2+F.2) - As Evaluated				4,489.41
H.1			12%/9%/7%/6% of G.1	-
H.2			12%/9%/7%/6% of G.1	3,591.53
I.1			10%/8% of G.1	-
I.2			10%/8% of G.1	2,648.75
J.1			5% of (G.1+H1+I1)	-
J.2			5% of (G.2+H2+I2)	55,623.85
K.1			(G.1+H1+I1+J1)	-
K.2			(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 : Project Billboard

Unit of Measurement : 4.00 unit

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	80.95	80.95
b. Skilled Laborer	2	1	58.61	117.22
c. Laborer	2	1	45.16	90.31
Sub-Total for A-1 As Submitted				288.48
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
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				288.48
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				288.48
E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
Materials				
F.1				
a. Marine Plywood, 3/6" thk x 4' x 8'	pcs	1.00	790.00	790.00
b. Tarpauling (4" x 8")	pcs	1.00	800.00	800.00
c. Assorted Lumber Sizes	bd.ft	50.00	20.00	1,000.00
d. Assorted Sizes CWN Nails	kg	1.00	76.00	76.00
Sub-Total for F-1 As Submitted				2,590.00
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				2,878.48
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	287.85
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	230.28
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)	169.83
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)	3,566.44
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 : 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.)
Labor				
a. Safety Practitioner	1	456	80.95	36,913.77
b. First Aider	2	912	74.14	135,224.52
A.1				
Sub-Total for A-1 As Submitted				172,138.29
Labor				
A.2				
Sub-Total for A-2 As Evaluated				
Equipment	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
B.1				
Sub-Total for B-1 As Submitted				-
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				172,138.29
Total (A.1+B.1) - As Submitted				
C.2				-
Total (A.2+B.2) - As Evaluated				
D.1				1.00
Output per Hour - As Submitted				
D.2				-
Output per Hour - As Evaluated				
E.1				172,138.29
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. 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				184,498.29
Direct Unit Cost (E.1+F.1) - As Submitted				
G.2				-
Direct Unit Cost (E.2+F.2) - As Evaluated				
H.1			12%/9%/7%/6% of G.1	-
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			12%/9%/7%/6% of G.1	
H.2			10%/8% of G.1	14,759.86
Contractor's Profit - As Submitted			10%/8% of G.1	-
I.2			5% of (G.1+H.1+I.1)	9,962.91
Value Added Tax - As Submitted			5% of (G.1+H.1+I.1)	-
J.2			5% of (G.2+H.2+I.2)	209,221.06
Value Added Tax - As Evaluated			(G.1+H.1+I.1+J.1)	
K.1			(G.2+H.2+I.2+J.1)	-
Total Unit Cost - As Evaluated				

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 : 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.)
Labor				
A.1				-
Sub-Total for A-1 As Submitted				-
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. 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

Road Widening - Primary Road - Jipolog - Punta - Dansullan - Sergio Osmeña Zambonga del Norte
DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Removal of Existing Headwall

Unit of Measurement : 24.00 each

Output per hour-As Submitted : 10.00 cu.m

Output per hour-As Evaluated : -

25.92

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				
Equipment				
B.1				
a. Backhoe w/ Breaker	1	0.50	1,998.10	999.05
b. Backhoe	1	0.50	1,537.00	768.50
c. Dumptruck	1	1.00	1,420.00	1,420.00
Sub-Total for B-1 As Submitted				3,187.55
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				3,358.81
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				10.00
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 ÷ D.1) - As Submitted				335.88
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				335.88
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	33.59
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	26.87
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)	19.82
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)	416.16
K.2				
Total Unit Cost - As Evaluated			(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed


JERALD R. BARRERA
 Engineer II


SIDRA A. ESTANISLA
 Engineer IV

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Surplus Common Excavation

Unit of Measurement : 84,509.00 cu.m

Output per hour-As Submitted : 60.00

Output per hour-As Evaluated : -

Note: Use Two (2) gang

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	4	1.00	45.16	180.63
A.1				
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.)
Equipment				
a. Bulldozer	2	1.00	3,379.00	6,758.00
b. Payloader	2	1.00	1,733.00	3,466.00
c. Payloader	2	0.25	1,733.00	866.50
b. Dumptruck	4	1.00	1,420.00	5,680.00
Sub-Total for B-1 As Submitted				16,770.50
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				
Total (A.1+B.1) - As Submitted				17,032.08
C.2				
Total (A.2+B.2) - As Evaluated				-
D.1				
Output per Hour - As Submitted				60.00
D.2				
Output per Hour - As Evaluated				-
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				283.87
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				283.87
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	28.39
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	22.71
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)	16.75
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)	351.71
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

Road Widening - Primary Roads - Dipolog - Punta - Dansullan - Sergio Osmeña Zamboanga del Norte/Sur Boundary

Zamboanga del Norte

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Foundation Fill

Unit of Measurement : 38.50 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.)
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.)
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.)
Materials				
a. Filling Materials	cu.m	1.15	1,309.10	1,505.47
F.1				
Sub-Total for F-1 As Submitted				1,505.47
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,853.65
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	185.37
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	148.29
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)	109.37
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)	2,296.67
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

Road Widening - Primary Roads - Dipolog - Punta - Dansulan - Sergio Osmeña Zamboanga del Norte/Sur Boundary

Zamboanga del Norte

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Pipe Culverts and Drain Excavation

Unit of Measurement : 43.00 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.)
A.1	Labor				
	a. Construction Foreman	1	1.00	80.95	80.95
	b. Laborer	3	1.00	45.16	135.47
	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.)
B.1	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.)
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				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

Road Widening - Primary Roads - Dipolog - Punta - Dansulan - Sergio Osmena Zamboanga del Norte/Sur Boundary

Zamboanga del Norte

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Embankment from Roadway Excavation

Unit of Measurement : 8,931.50 cu.m
Output per hour-As Submitted : 50.00
Output per hour-As Evaluated : -

Note: Use Two (2) gang

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
A.1	Labor				
	For Excavation Work				
	a. Construction Foreman	1	0.83	80.95	67.19
	b. Laborer	4	0.83	45.16	149.92
	Spreading and Compaction				
	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				478.68
A.2	Labor				
	Sub-Total for A-2 As Evaluated				-
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
	Equipment				
	For Excavation Work				
	a. Bulldozer	2	0.83	3,379.00	5,609.14
	b. Payloader	2	0.83	1,733.00	2,876.78
	c. Dumptruck	4	0.83	1,420.00	4,714.40
	Spreading and Compaction				
	a. Motorized Road Grader	2	1.00	2,173.00	4,346.00
	b. Vibratory Roller	2	1.00	1,846.00	3,692.00
	c. Water Truck/Pump	2	0.25	2,450.00	1,225.00
	Sub-Total for B-1 As Submitted				22,463.32
	Equipment				
B.2	Sub-Total for B-2 As Evaluated				
	Total (A.1+B.1) - As Submitted				22,942.00
C.1	Total (A.2+B.2) - As Evaluated				-
C.2	Output per Hour - As Submitted				50.00
D.1	Output per Hour - As Evaluated				-
D.2	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				458.84
E.1	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				-
					-
	Sub-Total for F-1 As Submitted				-
	Materials				
F.2	Sub-Total for F-2 As Evaluated				-
	Sub-Total for F-2 As Evaluated				458.84
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2+F.2) - As Evaluated				45.88
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	36.71
I.1	Contractor's Profit - As Submitted			10%/8% of G.1	-
I.2	Contractor's Profit - As Evaluated			10%/8% of G.1	27.07
J.1	Value Added Tax - As Submitted			5% of (G.1+H1+I1)	-
J.2	Value Added Tax - As Evaluated			5% of (G.2+H2+I2)	568.50
K.1	Total Unit Cost - As Submitted			(G.1+H1+I1+J1)	-
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

Road Widening - Primary Road **Polog - Punta - Dansullan - Sergio Osmeña Zamboanga del Norte** **ga del Norte/Sur Boundary**
DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Subgrade Preparation

Unit of Measurement : 51,647.00 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
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			12%/9%/7%/6% of G.1	1.60
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	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
JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO
ISIDRA A. ESTANISLAO

Engineer IV

Road Widening - Primary Road **polog - Punta - Dansullan - Sergio Osmeña Zam** **ga del Norte/Sur Boundary**
 Zamboanga del Norte
DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Aggregate Subbase Course

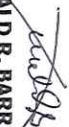
Unit of Measurement : 18,870.00 cu.m

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
A.2				
Labor				
				-
Sub-Total for A-2 As Evaluated				-
B.1				
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
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				-
F.1				
Materials				
a. Aggregate Subbase Course	cu.m	1.15	1,309.10	1,505.47
				-
Sub-Total for F-1 As Submitted				1,505.47
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				1,601.52
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	160.15
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	128.12
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)	94.49
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)	1,984.28
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

Road Widening - Primary Road **Polog - Punta - Dansulan - Sergio Osmeña Zam** **iga del Norte/Sur Boundary**
 Zamboanga del Norte
DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Gravel Surface Course

Unit of Measurement : 2,384.00 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
A.2	Labor				
					-
					-
	Sub-Total for A-2 As Evaluated				
B.1	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
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				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
	Materials				
	a. Uncrushed Aggregate Surface Course	cu.m	1.15	1,434.10	1,649.22
	Sub-Total for F-1 As Submitted				1,649.22
F.2	Materials				
	Sub-Total for F-2 As Evaluated				-
G.1	Direct Unit Cost (E.1+F.1) - As Submitted				1,745.27
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	174.53
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	139.62
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)	102.97
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)	2,162.39
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

ipolog - Punta - Dansullan - Sergio Osmeña Zamboanga del Norte

FORM-POW-2015-01D-00

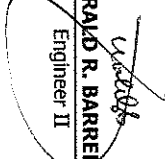
Item No./Description	:	Portland Cement Concrete Pavement
Unit of Measurement	:	32,273.50 sq.m
Output per hour-As Submitted	:	57.50
Output per hour-As Evaluated	:	-

	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
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				
	Name and Capacity	No. of Units	No. of Hour/s	Hourly Rate	Amount (Php.)
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	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
	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				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				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php.)
F.1	Materials				
	a. Reinforcing Steel Bar	kg	0.500	43.00	21.50
	b. Curing Compound	ltr	0.290	40.00	11.60
	c. Asphalt Seajant	ltr	0.170	75.00	12.75
	d. Steel Forms	m	0.460	40.00	18.40
	e. Sand	cu.m	0.154	1,475.10	227.17
	f. Gravel	cu.m	0.280	1,359.10	380.55
	g. Cement	bag	2.660	294.51	783.40
	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				1,457.77
	Materials				
F.2					
	Sub-Total for F-2 As Evaluated				-

G.1	Direct Unit Cost (E.1+F.1) - As Submitted		1,682.06
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	168.21
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	134.56
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)	99.24
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)	2,084.07
K.2	Total Unit Cost - As Evaluated	(G.2+H2+I2+J1)	-

Prepared by:

Checked/Reviewed


JERARDO R. BARRERA
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 : 114.00 ln.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	294.51	318.07
b. Sand	cu.m	0.06	1,475.10	89.98
c. RC Pipes (910 mm dia.)	pc	1.00	1,750.00	1,750.00
d. Sand Bedding/Selected Sandy Soil	cu.m	0.13	1,475.10	189.81
Sub-Total for F-1 As Submitted				2,346.87
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1 Direct Unit Cost (E.1+F.1) - As Submitted				3,244.94
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	324.49
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	259.60
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)	191.45
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)	4,020.48
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

Road Widening - Primary Road **Ipolog - Punta - Dansullan - Sergio Osmeña Zair** **Iga del Norte/Sur Boundary**
 Zamboanga del Norte
DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Grouted Riprap, Class "A"
 Unit of Measurement : 50.00 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.)
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.)
Equipment				
a. One Bagger Mixer	1	1.00	172.00	172.00
b. Water Truck/Pump	1	0.05	2,450.00	122.50
Minor Tools (10% of Labor Cost)				55.94
Sub-Total for B-1 As Submitted				350.44
Equipment				
B.2				
Sub-Total for B-2 As Evaluated				
C.1				909.86
Total (A.1+B.1) - As Submitted				
C.2				-
Output per Hour - As Submitted				1.25
D.1				-
Output per Hour - As Evaluated				727.89
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. Portland Cement	bag	2.50	294.51	736.28
b. Sand	cu.m	0.21	1,475.10	309.77
c. Gravel Fill	cu.m	0.02	1,359.10	20.39
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	1,633.10	1,714.76
Miscellaneous (1% of Materials Cost)				28.23
Sub-Total for F-1 As Submitted				2,851.73
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				3,579.62
Direct Unit Cost (E.1+F.1) - As Submitted				
G.2				
Direct Unit Cost (E.2+F.2) - As Evaluated				
H.1			12%/9%/7%/6% of G.1	357.96
H.2			12%/9%/7%/6% of G.1	-
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1			10%/8% of G.1	286.37
I.2			10%/8% of G.1	-
Contractor's Profit - As Evaluated				
J.1			5% of (G.1+H1+I1)	211.20
J.2			5% of (G.2+H2+I2)	-
Value Added Tax - As Evaluated				
K.1			(G.1+H1+I1+J1)	4,435.14
Total Unit Cost - As Submitted				
K.2			(G.2+H2+I2+J1)	-
Total Unit Cost - As Evaluated				

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 : 110.00 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.)
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.)
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.)
Materials				
a. Portland Cement	bag	2.50	294.51	736.28
b. Sand	cu.m	0.21	1,475.10	309.77
c. Gravel Fill	cu.m	0.02	1,359.10	20.39
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	1,633.10	1,714.76
Miscellaneous (1% of Materials Cost)				28.23
Sub-Total for F-1 As Submitted				2,851.73
Materials				
F.2				
Sub-Total for F-2 As Evaluated				-
G.1				
Direct Unit Cost (E.1+F.1) - As Submitted				3,516.45
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	351.65
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	281.32
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)	207.47
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)	4,356.88
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

Zamboanga del Norte

FORM-POW-2015-01D-00

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	Designation	No. of Person/s	No. of Hour/s	Hourly Rate	Amount (Php.)
	Labor				
A.1	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)	-

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
Quantity : 1,000.00

Terrain : Flat to Rolling
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 Volume to 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

$$\text{Loaded Running} = \frac{5.00 \times 60.00}{30.00} = 10 \text{ mins.}$$

$$\text{Unloaded Running} = \frac{5.00 \times 60.00}{40.00} = 7.5 \text{ mins.}$$

Loading & Unloading = 5.00 mins.

Capacity of Dumptruck = 10.00 cu.m.

Total Cycle Time = 22.50 mins.

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

$$\begin{aligned} \text{Dumptruck Daily Output} &= 10.00 \times 21.33 = 213.33 \text{ cu.m.} \\ \text{Using 4 Dumptruck} &= 213.33 \times 4.00 = 853.33 \text{ cu.m.} \end{aligned}$$

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

EQUIPMENT USED: (2009 ACEL RATES)

$$4.00 - \text{Unit Dumptruck} @ P 10,816.00 / \text{day} \times 1.17 \text{ days} = P \frac{50,700.00}{50,700.00} \text{ Sub-Total}$$

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

Labor P

Equipment P

ZAMBOANGA DEL NORTE 3RD 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	65.00	X 10.14	= 659.10	+	816.00 = 1,475.10
Cost of Coarse Aggregates	65.00	X 10.14	= 659.10	+	700.00 = 1,359.10
Cost of Item 200 Materials	65.00	X 10.14	= 659.10	+	650.00 = 1,309.10
Cost of Item 201 Materials	65.00	X 10.14	= 659.10	+	650.00 = 1,309.10
Cost of Item 300 Materials	65.00	X 10.14	= 659.10	+	775.00 = 1,434.10
Cost of Boulders	65.00	X 10.14	= 659.10	+	974.00 = 1,633.10
Cost of Embankment, Common Borrow	10.00	X 10.14	= 101.40	+	340.00 = 441.40
Cost of Embankment, Selected Borrow	10.00	X 10.14	= 101.40	+	500.00 = 601.40

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

Description	Quantity (Bags)
Portland Cement Concrete Pavement	-
Portland Cement Concrete Pavement	85,847.51
Structural Concrete, Class A	-
Lean Concrete for RCBC	-
Pipe Culvert & Storm Drain	123.12
Reinforced Concrete Culverts Pipe, 610 mm dia	-
Grouted Riprap, Class "A"	125.00
Stone Masonry	275.00
TOTAL	86,370.63

Quantity = 86,370.63 Bags

Delivery Charge = P 0.12 /bag/km

SITE	HAULING DISTANCE
Zamboanga del Norte 3rd DEO	
PROJECT SITE	70.00

* Average Hauling Distance from source to assumed stockpiling area:
say 70.00 km.

Delivery Charge = P 0.12 X 70.00
Delivery Charge = P 8.40 /bag

* Delivery Truck : 86,370.63 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 = $\frac{70.00}{30.00} \times \frac{60.00}{1}$ = 140 mins.

Unloading Running = $\frac{70.00}{40.00} \times \frac{60.00}{1}$ = 105 mins.

Loading & Unloading = 45.00 mins.
Capacity of Dumpruck = 8.00 cu.m.

500.00 bags
Total Cycle Time = 290.00 mins.

$$\text{No. of trips for Dumptruck per day} = \frac{8.00 \times 60.00}{290.00} = 1.66 \text{ trips}$$

$$\begin{array}{rclcl} \text{Dumptruck Daily Output} & = & 500.00 & \times & 1.66 & = & 827.59 & \text{cu.m.} \\ \text{Using 4 Dumptruck} & = & 827.59 & \times & 4.00 & = & 3,310.34 & \text{cu.m.} \end{array}$$

$$\text{No. of Days for Dumptruck} = \frac{86,370.63}{3,310.34} = 26.09 \text{ days}$$

$$\text{No. of Days for Labor for unloading} = \text{complimentary to D.Truck days} = 26.09 \text{ days}$$

DELIVERY COST:

$$86,370.63 \text{ Bags, Portland Cement} @ \text{ P } 8.40 \text{ /bag} = \text{ P } \underline{725,513.29}$$

Sub-total 725,513.29

LABOR:

1 Foreman	@	P	558.00 /day	X	26.09 days	=	P	14,558.85
10 Laborers	@	P	312.24 /day	X	26.09 days	=		81,466.94
						Sub-total		96,025.79

MATERIALS:

$$86,370.63 \text{ Bags, Portland Cement} @ \text{ P } 285.00 \text{ /bag} = \text{ P } \underline{24,615,629.55}$$

Sub-total 24,615,629.55

Estimated Quantity : 86,370.63 Bags

Unit Cost	P	294.51
Grand Total	P	25,437,168.63
Delivery Cost	P	725,513.29
Labor	P	96,025.79
Materials	P	24,615,629.55