



DPWH REGIONAL OFFICE IX

PROGRAM OF WORKS/BUDGET COST

For Modification

39

Project : ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO

Project ID : \_\_\_\_\_

Location : ZAMBOANGA DEL NORTE

Station Limits : K1805 + 335.00 - K 1806 + 263.00, K1806 + 472.00 - K1808 + 882.51, K1809 + 843.83 - K1810+900.00

Appropriation : Php 150,000,000.00

Source of Fund : \_\_\_\_\_

Net Length : (a) Road 4,460.95 In.m. = 8.922

(b) Bridge \_\_\_\_\_

(c) Others \_\_\_\_\_

Target Start Date : \_\_\_\_\_

Total Project Duration : 357 CD

No. of Pre-determined : 72 CD

Unworkable Days : 31 CD

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 Engineer			0.98	1,142,215.06		
B: Other General Requirements			0.72	838,665.02		
C: Earthworks			29.99	35,020,404.87		
D: Subbase and Base Course			13.17	15,375,653.09		
E: Surface Courses			40.50	47,293,961.93		
F: Bridge Construction			6.27	7,317,762.63		
G: Drainage and Slope Protection Structures			0.78	912,592.02		
H: Miscellaneous Structures			7.60	8,870,738.28		
Total			100.00	116,771,992.90		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	3,100,962.68	
2. Materials	83,986,182.96	
3. Rental of Equipment	29,684,847.26	
4. Provisional Sum / Daywork		
5. OCM and Profit	20,807,353.38	
6. Value Added Tax	6,878,967.31	
7. EAO, %	5,056,040.98	
8. RROW Acquisition	100,000.00	
9. Physical Reserved (Contingency)	385,645.43	
10. TOTAL ESTIMATED COST	150,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	116,771,992.90	
B. OCM and Profit	20,807,353.38	
C. Value Added Tax	6,878,967.31	
D. Total Construction Cost	144,458,313.59	
E. Eng'g & Administrative Overhead, %	5,056,040.98	
F. RROW Acquisition	100,000.00	
G. Physical Reserved (Contingency)	385,645.43	
H. TOTAL ESTIMATED COST	150,000,000.00	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer IV  
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee  
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division  
DPWH RO9

Approval:

Recommending Approval:

KHADAFFY D. TANGGOL

OIC-Assistant Regional Director  
DPWH RO9

Approved:

CAYANOMBABO D. DIA

Regional Director  
DPWH RO9



DPWH REGIONAL OFFICE IX

ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO

ZAMBOANGA DEL NORTE

### APPROVED BUDGET FOR THE CONTRACT

Contract Duration : 357

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
			%	VALUE				
PART A	FACILITIES FOR THE ENGINEER	AS EVALUATED						
		AS SUBMITTED		1,142,215.06	62,198.97	163,963.24	1,306,178.30	
PART B	OTHER GENERAL REQUIREMENTS	AS EVALUATED						
		AS SUBMITTED		838,665.02	44,092.69	87,281.48	925,946.50	
PART C	EARTHWORKS	AS EVALUATED						
		AS SUBMITTED		35,020,404.87	2,066,203.89	8,369,876.76	43,390,281.64	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED						
		AS SUBMITTED		15,375,653.09	907,163.53	3,674,781.09	19,050,434.17	
PART E	SURFACE COURSE	AS EVALUATED						
		AS SUBMITTED		47,293,961.93	2,790,343.75	11,303,256.90	58,597,218.83	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED						
		AS SUBMITTED		7,317,762.63	431,748.00	1,748,945.27	9,066,707.90	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED						
		AS SUBMITTED		912,592.02	53,842.93	218,109.49	1,130,701.52	
PART H	MISCELLANEOUS STRUCTURES	AS EVALUATED						
		AS SUBMITTED		8,870,738.28	523,373.56	2,120,106.45	10,990,844.73	
TOTAL		AS EVALUATED						
		AS SUBMITTED		116,771,992.90	6,878,967.31	27,686,320.69	144,458,313.59	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II

DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee

DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division

DPWH RO9

Approval:

Recommending Approval:

KHADAFFY D. TANGGOL

OIC-Assistant Regional Director

DPWH RO9

Approved:

CAYAMOMBAO D. DIA

Regional Director

DPWH RO9





DPWH REGIONAL OFFICE IX

ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO  
ZAMBOANGA DEL NORTE

APPROVED BUDGET FOR THE CONTRACT

Contract Duration :

ITEM NO.	DESCRIPTION		QUANTITY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
<b>PART A</b>	<b>FACILITIES FOR THE ENGINEER</b>										
A.1.1(3)	Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	473,543.76	18%	85,237.88	27,939.08	113,176.96	586,720.72	586,720.72
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for theField Office for the Engineers	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	206,580.00	8%	16,526.40	11,155.32	27,681.72	234,261.72	234,261.72
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	462,091.30	0%	-	23,104.57	23,104.57	485,195.87	485,195.87
	<b>TOTAL OF PART A</b>	AS EVALUATED									
		AS SUBMITTED			1,142,215.06		101,764.28	62,198.97	163,963.24	1,306,178.30	
<b>PART B</b>	<b>OTHER GENERAL REQUIREMENTS</b>										
B.5	Project Billboard/Signboard	AS EVALUATED									
		AS SUBMITTED	4.00	units	14,579.49	18%	2,624.31	860.19	3,484.50	18,063.99	4,516.00
B.4 (1)	Construction Survey and Staking	AS EVALUATED									
		AS SUBMITTED	4.46	km.	127,658.47	18%	22,978.52	7,531.85	30,510.37	158,168.84	35,456.31
B.7	Occupational Safety and Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	219,824.50	8%	17,585.96	11,870.52	29,456.48	249,280.98	249,280.98
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	476,602.56	0%	-	23,830.13	23,830.13	500,432.69	500,432.69
	<b>TOTAL OF PART B</b>	AS EVALUATED									
		AS SUBMITTED			838,665.02		43,188.79	44,092.69	87,281.48	925,946.50	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO  
Engineer II  
DPWH RO9

Checked/Submitted by:

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

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA  
OIC-Chief, Planning & Design Division  
DPWH RO9

PART C	EARTHWORKS										
100(3)a1	Individual Removal of Trees	AS EVALUATED									
		AS SUBMITTED	80.00	each	78,386.29	18%	14,109.53	4,624.79	18,734.32	97,120.61	1,214.01
100(3)a2	Individual Removal of Trees	AS EVALUATED									
		AS SUBMITTED			580,407.72	18%	104,473.39	34,244.06	138,717.44	719,125.16	#DIV/0!
101(8)	Removal of Existing Guardrails	AS EVALUATED									
		AS SUBMITTED	2,324.41	ln.m.	128,405.92	18%	23,113.07	7,575.95	30,689.01	159,094.93	68.45
101(9)	Removal of Existing Guardrail Posts	AS EVALUATED									
		AS SUBMITTED	602.00	each	465,575.89	18%	83,803.66	27,468.98	111,272.64	576,848.53	958.22
101(10)	Removal of Existing Road Signages	AS EVALUATED									
		AS SUBMITTED	264.00	each	408,345.63	18%	73,502.21	24,092.39	97,594.61	505,940.24	1,916.44
102(3)a	Surplus Rock Excavation	AS EVALUATED									
		AS SUBMITTED	11,822.50	cu.m.	2,335,463.89	18%	420,383.50	137,792.37	558,175.87	2,893,639.76	244.76
103(1)a	Structure Excavation	AS EVALUATED									
		AS SUBMITTED	1,579.00	cu.m.	362,901.11	18%	65,322.20	21,411.17	86,733.37	449,634.48	284.76
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	22.50	cu. m.	23,672.96	18%	4,261.13	1,396.70	5,657.84	29,330.80	1,303.59
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	47.00	cu.m.	10,802.00	18%	1,944.36	637.32	2,581.68	13,383.67	284.76
104(1)a1	Embankment from Roadway Excavation	AS EVALUATED									
		AS SUBMITTED	37,514.00	cu.m.	8,662,787.40	18%	1,559,301.73	511,104.46	2,070,406.19	10,733,193.59	286.11
104(2)a	Embankment from Borrow	AS EVALUATED									
		AS SUBMITTED	28,228.00	cu.m.	21,335,435.86	18%	3,840,378.46	1,258,790.72	5,099,169.17	26,434,605.03	936.47
105(1)a	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	39,233.00	sq.m.	628,220.21	18%	113,079.64	37,064.99	150,144.63	778,364.84	19.84
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			35,020,404.87		6,303,672.88	2,066,203.89	8,369,876.76	43,390,281.64	
PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED									
		AS SUBMITTED	16,479.00	cu. m.	15,375,653.09	18%	2,767,617.56	907,163.53	3,674,781.09	19,050,434.17	1,156.04
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED			15,375,653.09		2,767,617.56	907,163.53	3,674,781.09	19,050,434.17	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II  
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee  
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division  
DPWH RO9



PART E	SURFACE COURSES										
300(1)	Gravel Surface Course, 0.15m. Thick	AS EVALUATED									
		AS SUBMITTED	1,507.50	cu. m.	1,709,950.13	18%	307,791.02	100,887.06	408,678.08	2,118,628.21	1,405.39
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	AS EVALUATED									
		AS SUBMITTED	4,072.50	sq. m.	3,242,803.26	18%	583,704.59	191,325.39	775,029.98	4,017,833.24	986.58
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	AS EVALUATED									
		AS SUBMITTED	29,414.50	sq. m.	42,341,208.54	18%	7,621,417.54	2,498,131.30	10,119,548.84	52,460,757.38	1,783.50
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			47,293,961.93		8,512,913.15	2,790,343.75	11,303,256.90	58,597,218.83	
PART F	BRIDGE CONSTRUCTION										
404(1)a	Reinforcing Steel, (Grade 40)	AS EVALUATED									
		AS SUBMITTED	29,481.50	kg.	1,484,486.88	18%	267,207.64	87,584.73	354,792.37	1,839,279.25	62.39
405(1)a3	Structural Concrete, Class"A"	AS EVALUATED									
		AS SUBMITTED	952.50	cu.m.	5,833,275.75	18%	1,049,989.63	344,163.27	1,394,152.90	7,227,428.65	7,587.85
	TOTAL OF PART F	AS EVALUATED									
		AS SUBMITTED			7,317,762.63		1,317,197.27	431,748.00	1,748,945.27	9,066,707.90	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES										
500(1)b3	Pipe Culvert & Strom Drain,910 mm dia.	AS EVALUATED									
		AS SUBMITTED	51.00	ln. m.	154,160.39	18%	27,748.87	9,095.46	36,844.33	191,004.72	3,745.19
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	67.00	cu. m.	198,408.93	18%	35,713.61	11,706.13	47,419.74	245,828.67	3,669.08
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	151.00	cu. m.	560,022.71	18%	100,804.09	33,041.34	133,845.43	693,868.13	4,595.15
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			912,592.02		164,266.56	53,842.93	218,109.49	1,130,701.52	
PART H	MISCELLANEOUS STRUCTURES										
611(1)	Trees, Furnishing & Transplanting	AS EVALUATED									
		AS SUBMITTED	391.00	each	1,592,840.60	18%	286,711.31	93,977.60	380,688.90	1,973,529.50	5,047.39
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED									
		AS SUBMITTED	1,346.50	sq.m.	1,024,524.96	18%	184,414.49	60,446.97	244,861.47	1,269,386.43	942.73
622(1)a	Coco-net	AS EVALUATED									
		AS SUBMITTED	2,238.00	sq.m.	284,226.96	18%	51,160.85	16,769.39	67,930.24	352,157.20	157.35
622(1)b	Coco-net	AS EVALUATED									
		AS SUBMITTED	16,529.00	sq.m.	2,428,943.62	18%	437,209.85	143,307.67	580,517.52	3,009,461.14	182.07
622(2)b	Coco-logs/Fascine	AS EVALUATED									
		AS SUBMITTED	3,159.62	ln.m.	1,476,510.73	18%	265,771.93	87,114.13	352,886.06	1,829,396.79	578.99
622(3)a	Vegetation	AS EVALUATED									
		AS SUBMITTED	18,767.00	sq.m.	2,063,691.42	18%	371,464.46	121,757.79	493,222.25	2,556,913.67	136.25
	TOTAL OF PART H	AS EVALUATED									
		AS SUBMITTED			8,870,738.28		1,596,732.89	523,373.56	2,120,106.45	10,990,844.73	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			116,771,992.90		20,807,353.38	6,878,967.31	27,686,320.69	144,458,313.59	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO  
Engineer/II  
DPWH RO9

Checked/Submitted by:

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

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA  
OIC-Chief, Planning & Design Division  
DPWH RO9



DPWH REGIONAL OFFICE IX

ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO

ZAMBOANGA DEL NORTE

APPROVED BUDGET FOR THE CONTRACT

Contract Duration :

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					%	VALUE				
<b>PART A</b>	<b>FACILITIES FOR THE ENGINEER</b>									
A.1.1(3)	Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	AS EVALUATED								
		AS SUBMITTED	1.00	L.S.	473,543.76	18%	85,237.88	27,939.08	113,176.96	586,720.72
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Engineers	AS EVALUATED								
		AS SUBMITTED	1.00	L. S.	206,580.00	8%	16,526.40	11,155.32	27,681.72	234,261.72
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	AS EVALUATED								
		AS SUBMITTED	1.00	L.S.	462,091.30	0%	-	23,104.57	23,104.57	485,195.87
	<b>TOTAL OF PART A</b>	AS EVALUATED								
		AS SUBMITTED			1,142,215.06		101,764.28	62,198.97	163,963.24	1,306,178.30
<b>PART B</b>	<b>OTHER GENERAL REQUIREMENTS</b>									
B.5	Project Billboard/Signboard	AS EVALUATED								
		AS SUBMITTED	4.00	units	14,579.49	18%	2,624.31	860.19	3,484.50	18,063.99
B.4 (1)	Construction Survey and Staking	AS EVALUATED								
		AS SUBMITTED	4.46	km.	127,658.47	18%	22,978.52	7,531.85	30,510.37	158,168.84
B.7	Occupational Safety and Health Program	AS EVALUATED								
		AS SUBMITTED	1.00	L. S.	219,824.50	8%	17,585.96	11,870.52	29,456.48	249,280.98
B.9	Mobilization & Demobilization	AS EVALUATED								
		AS SUBMITTED	1.00	L. S.	476,602.56	0%	-	23,830.13	23,830.13	500,432.69
	<b>TOTAL OF PART B</b>	AS EVALUATED								
		AS SUBMITTED			838,665.02		43,188.79	44,092.69	87,281.48	925,946.50

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II  
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee  
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURMINO C. TORREFRANCA

OIC-Chief, Planning & Design Division  
DPWH RO9



PART C	EARTHWORKS										
100(3)a1	Individual Removal of Trees	AS EVALUATED									
		AS SUBMITTED	80.00	each	78,386.29	18%	14,109.53	4,624.79	18,734.32	97,120.61	1,214.01
100(3)a2	Individual Removal of Trees	AS EVALUATED									
		AS SUBMITTED	362.00	each	580,407.72	18%	104,473.39	34,244.06	138,717.44	719,125.16	1,986.53
101(8)	Removal of Existing Guardrails	AS EVALUATED									
		AS SUBMITTED	2,324.41	ln.m.	128,405.92	18%	23,113.07	7,575.95	30,689.01	159,094.93	68.45
101(9)	Removal of Existing Guardrail Posts	AS EVALUATED									
		AS SUBMITTED	602.00	each	465,575.89	18%	83,803.66	27,468.98	111,272.64	576,848.53	958.22
101(10)	Removal of Existing Road Signages	AS EVALUATED									
		AS SUBMITTED	264.00	each	408,345.63	18%	73,502.21	24,092.39	97,594.61	505,940.24	1,916.44
102(3)a	Surplus Rock Excavation	AS EVALUATED									
		AS SUBMITTED	11,822.50	cu.m.	2,335,463.89	18%	420,383.50	137,792.37	558,175.87	2,893,639.76	244.76
103(1)a	Structure Excavation	AS EVALUATED									
		AS SUBMITTED	1,579.00	cu.m.	362,901.11	18%	65,322.20	21,411.17	86,733.37	449,634.48	284.76
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	22.50	cu. m.	23,672.96	18%	4,261.13	1,396.70	5,657.84	29,330.80	1,303.59
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	47.00	cu.m.	10,802.00	18%	1,944.36	637.32	2,581.68	13,383.67	284.76
104(1) a1	Embankment from Roadway Excavation	AS EVALUATED									
		AS SUBMITTED	37,514.00	cu.m.	8,662,787.40	18%	1,559,301.73	511,104.46	2,070,406.19	10,733,193.59	286.11
104(2)a	Embankment from Borrow	AS EVALUATED									
		AS SUBMITTED	28,228.00	cu.m.	21,335,435.86	18%	3,840,378.46	1,258,790.72	5,099,169.17	26,434,605.03	936.47
105(1)a	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	39,233.00	sq.m.	628,220.21	18%	113,079.64	37,064.99	150,144.63	778,364.84	19.84
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			35,020,404.87		6,303,672.88	2,066,203.89	8,369,876.76	43,390,281.64	
PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED									
		AS SUBMITTED	16,479.00	cu. m.	15,375,653.09	18%	2,767,617.56	907,163.53	3,674,781.09	19,050,434.17	1,156.04
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED			15,375,653.09		2,767,617.56	907,163.53	3,674,781.09	19,050,434.17	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II  
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee

DPWH RO9

Evaluation:

Reviewed as to Unit Cost

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division

DPWH RO9

PART E	SURFACE COURSES										
300(1)	Gravel Surface Course, 0.15m. Thick	AS EVALUATED									
		AS SUBMITTED	1,507.50	cu. m.	1,709,950.13	18%	307,791.02	100,887.06	408,678.08	2,118,628.21	1,405.39
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	AS EVALUATED									
		AS SUBMITTED	4,072.50	sq. m.	3,242,803.26	18%	583,704.59	191,325.39	775,029.98	4,017,833.24	986.58
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	AS EVALUATED									
		AS SUBMITTED	29,414.50	sq. m.	42,341,208.54	18%	7,621,417.54	2,498,131.30	10,119,548.84	52,460,757.38	1,783.50
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			47,293,961.93		8,512,913.15	2,790,343.75	11,303,256.90	58,597,218.83	
PART F	BRIDGE CONSTRUCTION										
404(1)a	Reinforcing Steel, (Grade 40)	AS EVALUATED									
		AS SUBMITTED	29,481.50	kg.	1,484,486.88	18%	267,207.64	87,584.73	354,792.37	1,839,279.25	62.39
405(1)a3	Structural Concrete, Class "A"	AS EVALUATED									
		AS SUBMITTED	952.50	cu.m.	5,833,275.75	18%	1,049,989.63	344,163.27	1,394,152.90	7,227,428.65	7,587.85
	TOTAL OF PART F	AS EVALUATED									
		AS SUBMITTED			7,317,762.63		1,317,197.27	431,748.00	1,748,945.27	9,066,707.90	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES										
500(1)b3	Pipe Culvert & Storm Drain, 910 mm dia.	AS EVALUATED									
		AS SUBMITTED	51.00	ln. m.	154,160.39	18%	27,748.87	9,095.46	36,844.33	191,004.72	3,745.19
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	67.00	cu. m.	198,408.93	18%	35,713.61	11,706.13	47,419.74	245,828.67	3,669.08
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	151.00	cu. m.	560,022.71	18%	100,804.09	33,041.34	133,845.43	693,868.13	4,595.15
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			912,592.02		164,266.56	53,842.93	218,109.49	1,130,701.52	
PART H	MISCELLANEOUS STRUCTURES										
611(1)	Trees, Furnishing & Transplanting	AS EVALUATED									
		AS SUBMITTED	391.00	each	1,592,840.60	18%	286,711.31	93,977.60	380,688.90	1,973,529.50	5,047.39
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED									
		AS SUBMITTED	1,346.50	sq.m.	1,024,524.96	18%	184,414.49	60,446.97	244,861.47	1,269,386.43	942.73
622(1)a	Coco-net	AS EVALUATED									
		AS SUBMITTED	2,238.00	sq.m.	284,226.96	18%	51,160.85	16,769.39	67,930.24	352,157.20	157.35
622(1)b	Coco-net	AS EVALUATED									
		AS SUBMITTED	16,529.00	sq.m.	2,428,943.62	18%	437,209.85	143,307.67	580,517.52	3,009,461.14	182.07
622(2)b	Coco-logs/Fascine	AS EVALUATED									
		AS SUBMITTED	3,159.62	ln.m.	1,476,510.73	18%	265,771.93	87,114.13	352,886.06	1,829,396.79	578.99
622(3)a	Vegetation	AS EVALUATED									
		AS SUBMITTED	18,767.00	sq.m.	2,063,691.42	18%	371,464.46	121,757.79	493,222.25	2,556,913.67	136.25
	TOTAL OF PART H	AS EVALUATED									
		AS SUBMITTED			8,870,738.28		1,596,732.89	523,373.56	2,120,106.45	10,990,844.73	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			116,771,992.90		20,807,353.38	6,878,967.31	27,686,320.69	144,458,313.59	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENQUIJO  
Engineer II  
DPWH RO9

Checked/Submitted by:

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

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA  
OIC-Chief, Planning & Design Division  
DPWH RO9





**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO  
ZAMBOANGA DEL NORTE**

				ITEMIZED BREAKDOWN							
ITEM NO.	DESCRIPTION	QTY		UNIT	DIRECT COST				TOTAL UNIT COST		% DIRECT COST
		AS SUBMITTED	AS EVALUATED		TOTAL		UNIT COST		(DIRECT+INDIRECT)		
					AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS EVALUATED
PART A	FACILITIES FOR THE ENGINEER										
A.1.1(3)	Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	1.00		L. S.	473,543.76		473,543.76		586,720.72		0.406
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for theField Office for the Engineers	1.00		L. S.	206,580.00		206,580.00		234,261.72		0.177
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	1.00		L.S.	462,091.30		462,091.30		533,715.45		0.396
	TOTAL OF PART A				1,142,215.06						0.978
PART B	OTHER GENERAL REQUIREMENTS										
B.5	Project Billboard/Signboard	4.00		units	14,579.49		3,644.87		4,516.00		0.012
B.4 (1)	Construction Survey and Staking	4.46		km.	127,658.47		28,616.88		35,456.31		0.109
B.7	Occupational Safety and Health Program	1.00		L. S.	219,824.50		219,824.50		272,362.56		0.188
B.9	Mobilization & Demobilization	1.00		L. S.	476,602.56		476,602.56		590,510.57		0.408
	TOTAL OF PART B				838,665.02						0.718
PART C	EARTHWORKS										
100(3)a1	Individual Removal of Trees	80.00		each	78,386.29		979.83		1,165.02		0.067
100(3)a2	Individual Removal of Trees	362.00		each	580,407.72		1,603.34		1,906.37		0.497
101(8)	Removal of Existing Guardrails	2,324.41		ln.m.	128,405.92		55.24		65.68		0.110
101(9)	Removal of Existing Guardrail Posts	602.00		each	465,575.89		773.38		919.55		0.399
101(10)	Removal of Existing Road Signages	264.00		each	408,345.63		1,546.76		1,839.10		0.350
102(3)a	Surplus Rock Excavation	11,822.50		cu.m.	2,335,463.89		197.54		244.76		2.000
103(1)a	Structure Excavation	1,579.00		cu.m.	362,901.11		229.83		284.76		0.311
103(3)	Foundation Fill	22.50		cu. m.	23,672.96		1,052.13		1,303.59		0.020
103(6)a	Pipe Culvert and Drain Excavation	47.00		cu.m.	10,802.00		229.83		284.76		0.009
104(1 )a1	Embankment from Roadway Excavation	37,514.00		cu.m.	8,662,787.40		230.92		286.11		7.419
104(2)a	Embankment from Borrow	28,228.00		cu.m.	21,335,435.86		755.83		936.47		18.271
105(1)a	Subgrade Preparation	39,233.00		sq.m.	628,220.21		16.01		19.84		0.538
	TOTAL OF PART C				35,020,404.87						29.990

PART D	SUBBASE AND BASE COURSE								
200(1)	Aggregate Subbase Course, 0.30 m. thick	16,479.00		cu. m.	15,375,653.09		933.05	1,156.04	13.167
	TOTAL OF PART D				15,375,653.09				13.167
PART E	SURFACE COURSES								
300(1)	Gravel Surface Course, 0.15m. Thick	1,507.50		cu. m.	1,709,950.13		1,134.30	1,405.39	1.464
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	4,072.50		sq. m.	3,242,803.26		796.27	986.58	2.777
311(1)c1	Portland Cement Concrete Pavement, 0.23m. Thk.	-		sq.m.	-		1,190.50	1,475.03	0.000
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	29,414.50		sq. m.	42,341,208.54		1,439.47	1,783.50	36.260
	TOTAL OF PART E				47,293,961.93				40.501
PART F	BRIDGE CONSTRUCTION								
404(1)a	Reinforcing Steel, (Grade 40)	29,481.50		kg.	1,484,486.88		50.35	62.39	1.271
405(1)a3	Structural Concrete, Class "A"	952.50		cu.m.	5,833,275.75		6,124.17	7,587.85	4.995
	TOTAL OF PART F				7,317,762.63				6.267
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES								
500(1)b3	Pipe Culvert & Storm Drain, 910 mm dia.	51.00		ln. m.	154,160.39		3,022.75	3,745.19	0.132
500(1)b5	Pipe Culvert & Storm Drain, 1220 mm dia.	-		ln.m.	-		5,465.83	6,772.16	0.000
505(2)a	Grouted Riprap, Class "A"	67.00		cu. m.	198,408.93		2,961.33	3,689.08	0.170
508(1)	Stone Masonry	151.00		cu. m.	560,022.71		3,708.76	4,595.15	0.480
	TOTAL OF PART G				912,592.02				0.782
PART H	MISCELLANEOUS STRUCTURES								
611(1)	Trees, Furnishing & Transplanting	391.00		each	1,592,840.60		4,073.76	5,047.39	1.364
612(1)	Reflectorized Thermoplastic Pavement Marking, White	1,346.50		sq.m.	1,024,524.96		760.88	942.73	0.877
612(2)	Reflectorized Thermoplastic Pavement Marking, Yellow	-		sq.m.	-		833.70	1,032.96	0.000
622(1)a	Coco-net	2,238.00		sq.m.	284,226.96		127.00	157.35	0.243
622(1)b	Coco-net	16,529.00		sq.m.	2,428,943.62		146.95	182.07	2.080
622(2)b	Coco-logs/Fascine	3,159.62		ln.m.	1,476,510.73		467.31	578.99	1.264
622(3)a	Vegetation	18,767.00		sq.m.	2,063,691.42		109.96	136.25	1.767
	TOTAL OF PART H				8,876,738.29				7.597
	GRAND TOTAL				116,771,992.90				100.000





**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
ZAMBOANGA DEL NORTE

			DETAILED BREAKDOWN OF COMPONENT COST FOR EACH ITEM										
ITEM NO.	DESCRIPTION		%	QTY.	UNIT	DIRECT COST				TOTAL MARK-UP		5% VAT	TOTAL COST
						MATERIAL	LABOR	EQUIPMENT	TOTAL	%	VALUE		
PART A	FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	AS EVALUATED			L.S.								
		AS SUBMITTED	0.406	1.00		313,041.03	109,329.75	51,172.98	473,543.76	18%	85,237.88	27,939.08	566,720.72
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for theField Office for the Engineers	AS EVALUATED			L. S.								
		AS SUBMITTED	0.177	1.00		206,580.00			206,580.00	8%	16,526.40	11,155.32	234,261.72
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	AS EVALUATED			L.S.								
		AS SUBMITTED	0.396	1.00		293,294.50	168,796.80	-	462,091.30	0%	-	23,104.57	485,195.87
TOTAL OF PART A		AS EVALUATED											
		AS SUBMITTED	0.978			812,915.53	278,126.55	51,172.98	1,142,215.06		101,784.28	62,198.97	1,306,178.30
PART B	OTHER GENERAL REQUIREMENTS												
B.5	Project Billboard/Signboard	AS EVALUATED			units								
		AS SUBMITTED	0.012	4.00		13,660.00	919.48	-	14,579.48	18%	2,624.31	860.19	18,063.99
B.4 (1)	Construction Survey and Staking	AS EVALUATED			km.								
		AS SUBMITTED	0.109	4.46		27,040.72	88,573.18	12,044.57	127,658.47	18%	22,978.52	7,531.85	158,168.84
B.7	Occupational Safety and Health Program	AS EVALUATED			L. S.								
		AS SUBMITTED	0.188	1.00		49,000.00	170,824.50	-	219,824.50	8%	17,585.96	11,870.52	249,280.98
B.9	Mobilization & Demobilization	AS EVALUATED			L. S.								
		AS SUBMITTED	0.408	1.00		-	-	476,602.56	476,602.56	0%	-	23,830.13	500,432.69
TOTAL OF PART B		AS EVALUATED											
		AS SUBMITTED	0.718			89,700.72	260,317.17	488,647.13	838,665.02		43,188.78	44,092.69	925,946.50
PART C	EARTHWORKS												
100(3)a1	Individual Removal of Trees	AS EVALUATED			each								
		AS SUBMITTED	0.067	80.00		8,000.00	18,389.90	51,996.39	78,386.29	18%	14,109.53	4,624.79	97,120.61
100(3)a2	Individual Removal of Trees	AS EVALUATED			each								
		AS SUBMITTED	0.497	362.00		36,200.00	83,214.30	460,993.42	580,407.72	18%	104,473.39	34,244.06	719,125.16
101(8)	Removal of Existing Guardrails	AS EVALUATED			ln.m.								
		AS SUBMITTED	0.110	2,324.41		-	27,806.36	100,599.56	128,405.92	18%	23,113.07	7,575.95	158,094.93
101(9)	Removal of Existing Guardrail Posts	AS EVALUATED			each								
		AS SUBMITTED	0.399	602.00		-	51,851.39	413,724.50	465,575.89	18%	83,803.66	27,468.98	576,848.53
101(10)	Removal of Existing Road Signages	AS EVALUATED			each								
		AS SUBMITTED	0.350	264.00		-	45,477.63	362,868.00	408,345.63	18%	73,502.21	24,092.39	505,940.24
102(3)a	Surplus Rock Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	2.000	11,822.50		-	36,367.65	2,299,096.24	2,335,463.89	18%	420,383.50	137,792.37	2,893,639.76
103(1)a	Structure Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	0.311	1,579.00		-	17,165.31	345,735.80	362,901.11	18%	65,322.20	21,411.17	449,634.48
103(3)	Foundation Fill	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.020	22.50		16,244.33	4,726.37	2,702.26	23,672.96	18%	4,261.13	1,396.70	29,330.80
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	0.009	47.00		-	510.94	10,291.06	10,802.00	18%	1,944.36	637.32	13,383.67

[illegible]



PART F		BRIDGE CONSTRUCTION											
404(1)a	Reinforcing Steel, (Grade 40)	AS EVALUATED			kg.								
		AS SUBMITTED	1.271	29,481.50		1,308,420.82	78,530.53	96,535.53	1,484,486.88	18%	267,207.64	87,584.73	1,839,279.25
405(1)a3	Structural Concrete, Class "A"	AS EVALUATED			cu.m.								
		AS SUBMITTED	4.995	952.50		4,835,877.77	811,244.25	388,353.73	5,833,275.75	18%	1,049,989.63	344,183.27	7,227,428.85
	TOTAL OF PART F	AS EVALUATED											
		AS SUBMITTED	6.267			5,945,098.59	889,774.78	482,889.26	7,317,762.63		1,317,197.27	431,748.00	9,068,787.90
PART G		DRAINAGE AND SLOPE PROTECTION STRUCTURES											
500(1)b3	Pipe Culvert & Storm Drain, 910 mm dia.	AS EVALUATED			in. m.								
		AS SUBMITTED	0.132	51.00		137,094.54	4,354.88	12,711.17	154,160.39	18%	27,748.87	9,095.48	191,004.72
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.170	67.00		155,839.18	25,688.59	17,070.18	198,408.63	18%	35,713.81	11,706.13	245,828.67
506(1)	Stone Masonry	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.480	151.00		467,948.95	45,248.98	48,823.87	580,022.71	18%	100,804.09	33,041.34	693,868.13
	TOTAL OF PART G	AS EVALUATED											
		AS SUBMITTED	0.782			760,882.55	75,384.25	76,805.22	912,592.02		184,266.56	53,842.93	1,130,701.52
PART H		MISCELLANEOUS STRUCTURES											
611(1)	Trees, Furnishing & Transplanting	AS EVALUATED			each								
		AS SUBMITTED	1.384	391.00		107,448.80	90,271.84	1,395,122.18	1,592,940.80	18%	286,711.31	93,977.60	1,973,529.50
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED			sq.m.								
		AS SUBMITTED	0.877	1,346.50		821,042.49	20,860.02	82,522.45	1,024,524.96	18%	184,414.49	60,448.97	1,269,386.43
622(1)a	Coco-net	AS EVALUATED			sq.m.								
		AS SUBMITTED	0.243	2,238.00		234,980.00	19,837.89	29,398.27	284,226.96	18%	51,160.85	16,769.38	352,157.20
622(1)b	Coco-net	AS EVALUATED			sq.m.								
		AS SUBMITTED	2.080	15,528.00		217,131.80	145,513.47	2,065,298.55	2,428,943.62	18%	437,209.85	143,307.87	3,009,461.14
622(2)b	Coco-logs/Fascine	AS EVALUATED			ln. m.								
		AS SUBMITTED	1.264	3,159.82		1,373,818.57	93,358.50	9,335.85	1,476,510.73	18%	265,771.93	87,114.13	1,826,396.79
622(3)a	Vegetation	AS EVALUATED			sq.m.								
		AS SUBMITTED	1.787	18,797.00		685,287.50	51,725.98	1,026,897.84	2,083,891.42	18%	371,484.48	121,757.79	2,558,913.67
	TOTAL OF PART H	AS EVALUATED											
		AS SUBMITTED	7.587			3,838,696.96	422,865.30	4,608,376.02	8,870,738.28		1,598,732.89	523,373.56	10,990,844.73
	GRAND TOTAL	AS EVALUATED											
		AS SUBMITTED	100.000			93,984,182.96	3,100,962.68	20,884,847.28	118,771,992.90		20,887,353.38	6,878,987.31	144,458,313.59



**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO  
ZAMBOANGA DEL NORTE**

MINIMUM EQUIPMENT REQUIREMENT							
No.	Equipment Description	Capacity	Number of Equipment	No.	Equipment Description	Capacity	Number of Equipment
1	Bulldozer (D6H SERIES II PSDS/DD)		1	31			
2				32			
3	Payloader (LX80-2C)	1.50 m3/1.95 yd3	2	33			
4	Motorized Road Grader (G710A)		2	34			
5	Vibratory Roller (SD100DC)	10mt	2	35			
6	Plate Compactor (400-500 GASOLINE ENGINE)		2	36			
7	Backhoe ( SE 130 LC -2)		2	37			
8	Backhoe with Breaker ( SE 130 - LC - 2)		2	38			
9	Concrete Screeder (Wacker Truss Screed)		2	39			
10	One Bagger Mixer	4-6ft3/min	2	40			
11	Transit Mixer (All Models)	5-6 ya3	4	41			
12	Dump Truck (All Models)	12 yd3	8	42			
13	Cargo/Service Truck (All Models)	9 - 10 mt	2	43			
14	Boom Truck (All Models)	2-5 mt	1	44			
15	Water Truck/pump (All Makes)	16000 L	1	45			
16	Water Pump, 100 mm suction dia.	50 (mm)	1	46			
17	Welding Machine (Gas /Diesel Driven)		1	47			
18	Concrete Vibrator		2	48			
19	Concrete Saw		2	49			
20	Bar Cutter		1	50			
21	Bar Bender		1	51			
22	Concrete Batch Plant		1	52			
23	Hydroseeding Machine		2	53			
24	Applicator Machine		1	54			
25	Kneading Machine		1	55			
26	Cutting Outfit		1	56			
27				57			
28				58			
29				59			
30				60			
	<b>SUB-TOTAL</b>				<b>SUB-TOTAL</b>		
					<b>TOTAL</b>		

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./Description : A.1.1(3) Construction of Field Office for the Engineer (7,000 m. x 8,00 m.)

Quantity : 1.00  
Unit of Measurement : L.S.  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
A.1	Labor				
	Const. Foreman	1	120.00	80.95	9,714.15
	Skilled Laborers	8	120.00	58.61	56,865.60
	Laborers	8	120.00	45.16	43,350.00
	Sub - Total for A.1 - As Submitted				109,929.75
	Labor				
A.2					
	Sub - Total for A.2 - As Evaluated				
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
B.1	Equipment				
	One Bagger/Traker	1	120.00	172.00	20,640.00
	Water Truck/Pump	1	8.00	2,450.00	19,600.00
	Minor Tools (10% of Labor Cost)				10,932.98
	Sub - Total for B.1 - As Submitted				51,172.98
	Equipment				
B.2	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				160,592.73
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				1.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				160,592.73
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
<b>Materials</b>					
	Portland Cement	bag	220.00	286.81	63,097.23
	Crushed Gravel	cum.	15.00	827.80	12,417.00
	Washed Sand	cum.	25.00	943.80	23,595.00
	Reinforcing Steel Bars, Grade 60	kg.	800.00	43.00	34,400.00
	Tie Wire	kg.	35.00	65.00	2,275.00
	Lumber	bd.ft.	250.00	15.00	3,750.00
	Assorted CN Nails	kg.	20.00	55.00	1,100.00
	CHB# thick	pc.	700.00	25.00	17,500.00
	Reinforcing Steel Bars, Grade 40	kg.	150.00	41.00	6,150.00
	D-1, Hollow Core Finish, Type swing door, complete w/ accessories	set	1.00	1,495.20	1,495.20
	Angle Bars	kg.	640.00	52.00	33,280.00
	Purlins, C-150mm x 50 x 3mm	kg.	35.00	52.00	1,820.00
	16mm dia. Cross Bracing	kg.	65.00	50.00	3,250.00
	16mm dia. Turn Buckle	kg.	30.00	230.00	6,900.00
	12mm x1/2 Base Plate	kg.	45.00	50.00	2,250.00
	10mm thk. Batten plate	kg.	30.00	50.00	1,500.00
	10mm dia. Sag Rod	kg.	15.00	50.00	750.00
	20mm dia. X 350 mm Anchor Bolts	pc.	150.00	50.00	7,500.00
	Welding Rod	kg.	25.00	130.00	3,250.00
	Primer, Zinc Chromate	kg.	5.00	531.00	2,655.00
	Pre-painted GI, Roofing Shit, Long Span	gal.	55.00	420.00	23,100.00
	Pre-painted Flashing Ridge Roll GA24x 0.60m width	sq. m.	10.00	189.00	1,890.00
	Pre-painted Flashing, GA 24	lm.m.	2.00	189.00	378.00
	Tedscrew 1-1/2"	lm.m.	1,000.00	1.25	1,250.00
	Rod Sealant	pc.	2.00	230.00	460.00
	Rough lumber, Sun dried Tangle	bd.ft.	450.00	37.00	16,650.00
	Finishing Nails	kg.	5.00	280.00	1,400.00
	2 x 40w Fluorescent Lighting Fixtures	kg.	5.00	1,450.00	7,250.00
	Porcelain Ceiling Outlet w/ female	pc.	2.00	50.00	100.00
	Duplex Convenience Outlet	pc.	3.00	170.00	510.00
	Two gang Switch	pc.	3.00	132.00	396.00
	3.50mm2 THW	roll	1.00	3,600.00	3,600.00
	8.00mm2 THW	m	20.00	69.33	1,386.60
	15mm dia. PVC pipe	pc.	20.00	75.00	1,520.00
	15mm dia. PVC Coupling	pc.	20.00	27.00	540.00
	15mm dia. PVC Elbow	pc.	20.00	26.00	520.00

F.1



15mm dia. PVC Clamp	pc.	50.00	8.00	400.00
20mm dia. RSC pipe	pc.	4.00	240.00	960.00
20mm dia. RCS Coupling	pc.	3.00	36.00	108.00
20 mm dia RSC Elbow	pc.	3.00	30.00	90.00
20mm dia RSCClamp	pc.	10.00	18.00	180.00
20mm dia. Service Entrance Cap	pc.	2.00	101.50	203.00
Wire Holder	pc.	2.00	50.00	100.00
Utility Box	pc.	7.00	32.00	224.00
Octagon Box	pc.	50.00	34.00	1,700.00
Electrical Tape	pc.	7.00	28.00	196.00
Panel Boardside Main w/ braches	set	2.00	2,750.00	5,500.00
Water Closet (complete w/ accessories & fittings)	set	1.00	6,062.00	6,062.00
Lavatory (complete w/ fittings & accessories)	set	1.00	4,512.00	4,512.00
1/2" GI pipe S-40	pc.	2.00	292.00	584.00
1/2" Water Faucet	pc.	2.00	165.00	330.00
1/2" Assorted Connector	pc.	8.00	19.00	152.00
4" PVC Series 1000	pc.	1.00	640.00	640.00
2" PVC Series 1000	pc.	1.00	305.00	305.00
4" PVC Assorted Connector	pc.	6.00	77.00	462.00
2" PVC Assorted Connector	pc.	8.00	56.00	448.00
Sub - Total for F.1 - As Submitted				313,041.03
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted			473,543.76
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated			
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted	15% / 12% / 10% / 8% of G.1		47,354.38
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated	15% / 12% / 10% / 8% of G.2		-
I.1	Contractor's Profit (CP) - As Submitted	10% / 8% of G.1		37,883.50
I.2	Contractor's Profit (CP) - As Evaluated	10% / 8% of G.2		-
J.1	Value Added Tax (VAT) - As Submitted	5% of (G.1 + H.1 + I.1)		27,939.08
J.2	Value Added Tax (VAT) - 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)		586,720.72
K.2	Total Unit Cost - As Evaluated	(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENCQUJO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

JERRALD B. BARRERA  
Engineer II  
DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./Description : A.1.(11) Provision of Furniture/Fixtures, Equipment & Appliances for the Field of the Engineers

Quantity : 1.00  
Unit of Measurement : L.S.  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>A.1</b>				
Labor				0.00
				0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				0.00
Labor				
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (PHP)</b>
<b>B.1</b>				
Equipment				-
				-
<b>Sub - Total for B.1 - As Submitted</b>				-
Equipment				
<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>				-
<b>C.2</b>				
<b>Total (A.2 + B.2) - As Evaluated</b>				-
<b>D.1</b>				
<b>Output per hour - As Submitted</b>				1.00
<b>D.2</b>				
<b>Output per hour - As Evaluated</b>				1.00
<b>E.1</b>				
<b>Direct Unit Cost (C.1 + D.1) - As Submitted</b>				-
<b>E.2</b>				
<b>Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				-

Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
<b>Materials</b>				
White Board, 3' x 6'	each	1.00	2,000.00	2,000.00
8-seater Monoblock Dining Table	unit	1.00	5,000.00	5,000.00
Monoblock Chairs	pc.	12.00	500.00	6,000.00
Plastic Pail & Basin	set	2.00	500.00	1,000.00
Aluminum Cookware	set	1.00	3,000.00	3,000.00
Plates, Glass, Spoon & Fork	doz.	1.00	2,000.00	2,000.00
8" Sleeping Bed w/ pillows & blanket	pc.	3.00	5,000.00	15,000.00
Office Table, "J", Executive type w/ chair	set	1.00	7,000.00	7,000.00
Drawing Table	each	1.00	4,000.00	4,000.00
Computer Table	each	1.00	2,500.00	2,500.00
Cartridge(Computer Printer/ink)	each	12.00	1,000.00	12,000.00
Bond paper(1.ong)	ream	20.00	350.00	7,000.00
Bond Paper(short)	ream	15.00	300.00	4,500.00
Pad paper	pads	6.00	50.00	300.00
Scotch Tape	rolls	6.00	45.00	270.00
Messing Tape	rolls	6.00	100.00	600.00
Batteries Energizer	pc.	12.00	50.00	600.00
Balpen	box	3.00	250.00	750.00
Pencils	box	2.00	150.00	300.00
Paper Clips	box	2.00	45.00	90.00
Fasteners	box	4.00	50.00	200.00
Eraser(ink, pencil)	box	2.00	120.00	240.00
Staple Wire	box	6.00	150.00	900.00
Cutter Blade	bottles	3.00	200.00	600.00
Gute	bottles	6.00	50.00	300.00
Correction Fluid Pen	bottles	12.00	50.00	600.00
Brown Envelope, Long & Short	doz.	6.00	110.00	660.00
Expanded Envelope, long	doz.	6.00	130.00	780.00
Colored Pencil, 12's	set	6.00	150.00	900.00
Folder, short	doz.	6.00	100.00	600.00
Folder, long	doz.	6.00	120.00	720.00
Pencil(per/Assorted Colors)	pcs.	12.00	50.00	600.00
White Board Marker(Assorted Colors)	pcs.	12.00	90.00	1,080.00
Letter Envelope, White (long)	box	2.00	130.00	260.00
Data File Folder	pcs.	6.00	150.00	900.00
Sign Pen, Assorted	doz.	2.00	500.00	1,000.00
Laptop	unit	1.00	60,000.00	60,000.00
Computer Printer (Scanner & Photocopy)	unit	1.00	8,000.00	8,000.00
Digital Camera	unit	1.00	10,000.00	10,000.00
USB (32 GB)	unit	2.00	600.00	1,200.00
Water dispenser	unit	1.00	5,000.00	5,000.00

F.1

Electric Fan	pc.	3.00	2,000.00	6,000.00
Steel Cabinet	unit	1.00	5,000.00	5,000.00
Gas Stove w/ Tank	set	1.00	3,500.00	3,500.00
Stove Tank Refill	tanks	6.00	850.00	5,100.00
Wall Clock	unit	2.00	500.00	1,000.00
Rice Cooker	unit	1.00	1,300.00	1,300.00
Electric Airpot	unit	1.00	1,800.00	1,800.00
Water Container	pc.	2.00	300.00	600.00
Puncher	pc.	1.00	300.00	300.00
Shapler	pc.	3.00	300.00	900.00
Bulletin/Cork Board 2' x 3'	pc.	2.00	500.00	1,000.00
Scissors	pc.	4.00	50.00	200.00
Record Book (500 leaves)	pc.	6.00	130.00	780.00
Folding Bed	pc.	3.00	1,800.00	5,400.00
Bedsheets(Single)	pc.	6.00	500.00	3,000.00
Rechargeable Lamps	unit	3.00	750.00	2,250.00
Sub - Total for F.1 - As Submitted				206,580.00
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				206,580.00
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		-
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
I.1 Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		16,528.40
I.2 Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
J.1 Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		11,155.32
J.2 Value Added Tax (VAT) - 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)		234,261.72
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENGQUINO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

JENALD B. BARRERA  
Engineer II  
DPWH RO9



**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : A.1.2 Operation and Maintenance of Gov't Service Vehicle

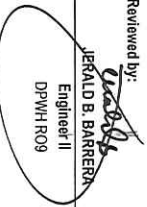
Quantity : 1.00  
Unit of Measurement : L.S.  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>A.1</b>				
Labor				0.00
Service Driver	1	2,880.00	58.61	168,796.80
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				<b>168,796.80</b>
Labor				
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (PHP)</b>
<b>B.1</b>				
Equipment				
Service Vehicle	1	-		-
				-
<b>Sub - Total for B.1 - As Submitted</b>				<b>-</b>
Equipment				
<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>				<b>168,796.80</b>
<b>C.2</b>				
<b>Total (A.2 + B.2) - As Evaluated</b>				<b>-</b>
<b>D.1</b>				
Output per hour - As Submitted				1.00
<b>D.2</b>				
Output per hour - As Evaluated				1.00
<b>E.1</b>				
Direct Unit Cost (C.1 + D.1) - As Submitted				168,796.80
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (PHP)</b>
<b>Materials</b>				
<b>F.1</b>				
Diesel Fuel	liters	3,570.00	51.00	182,070.00
Engine Oil & Lubricants	l.s.	1.00	27,310.50	27,310.50
Tires	pcs.	5.00	9,500.00	47,500.00
Spare Parts	l.s.	1.00	36,414.00	36,414.00
<b>Sub - Total for F.1 - As Submitted</b>				<b>-</b>
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				462,091.30
<b>G.2</b>				
Direct Unit Cost (E.2 + F.2) - As Evaluated				-
<b>H.1</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		46,209.13
<b>H.2</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
<b>I.1</b>				
Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		-
<b>I.2</b>				
Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
<b>J.1</b>				
Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		25,415.02
<b>J.2</b>				
Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		-
<b>K.1</b>				
Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		533,715.45
<b>K.2</b>				
Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

  
**JOSEPHINE B. RENCAPILLO**  
Engineer II  
DPWH RO9

Checked/Reviewed by:

  
**JERALD B. BARRERA**  
Engineer II  
DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 4.46  
 Unit of Measurement : km.  
 Output per hour - As Submitted : 1.00  
 Output per hour - As Evaluated :

Designation	No. of Person's	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
For Fieldworks:				0.00
Geodetic Engineer	1	27.00	104.16	2,812.42
Skilled Laborers	1	27.00	58.61	1,582.47
Laborers	2	27.00	45.16	2,438.44
<b>For Office Works:</b>				
Geodetic Engineer	1	80.00	104.16	8,333.10
Skilled Laborers	1	80.00	58.61	4,688.80
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				19,855.23
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
Total Station Complete w/ accessories	1	27.00	100.00	2,700.00
				-
<b>Sub - Total for B.1 - As Submitted</b>				2,700.00
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				22,555.23
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				-
<b>D.1 Output per hour - As Submitted</b>				1.00
<b>D.2 Output per hour - As Evaluated</b>				22,555.23
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				-
<b>E.2 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>Materials</b>				
Standard Stake Plan (800 mm x 910 mm plotting)	sheets	23.00	51.00	1,173.00
blue print as stake plan	pcs.	115.00	40.00	4,600.00
miscellaneous(5% of Materials)			288.65	288.65
				-
<b>Sub - Total for F.1 - As Submitted</b>				6,061.65
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				28,616.88
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				-
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>		15% / 12% / 10% / 8% of G.1		2,861.69
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.2		-
<b>I.1 Contractor's Profit (CP) - As Submitted</b>		10% / 8% of G.1		2,289.35
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>		10% / 8% of G.2		-
<b>J.1 Value Added Tax (VAT) - As Submitted</b>		5% of (G.1 + H.1 + I.1)		1,688.40
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>		5% of (G.2 + H.2 + I.2)		-
<b>K.1 Total Unit Cost - As Submitted</b>		(G.1 + H.1 + I.1 + J.1)		35,456.31
<b>K.2 Total Unit Cost - As Evaluated</b>		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

  
 JOSEPHINE B. REMIGULIO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

  
 JERALD B. BARQUERA  
 Engineer II  
 DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOL OG - OROQUEITA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./ Description : B.5 Project Billboard

Quantity : 4.00  
 Unit of Measurement : each  
 Output per hour - As Submitted : 1.00  
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
				0.00
A.1 Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	1	1.00	58.61	58.61
Laborers	2	1.00	45.16	90.31
				0.00
Sub - Total for A.1 - As Submitted				229.87
<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				229.87
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				1.00
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				229.87
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php)</b>
<b>Materials</b>				
F.1				
Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	435.00	435.00
Tarpsaulin (4' x 8')	pc	1.00	800.00	800.00
Assorted Sizes lumber	bd.ft.	50.00	42.00	2,100.00
Assorted CW Nails	Kg.	1.00	80.00	80.00
				-
Sub - Total for F.1 - As Submitted				3,415.00
<b>Materials</b>				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				3,444.87
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		364.49
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
I.1 Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		291.59
I.2 Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
J.1 Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		215.05
J.2 Value Added Tax (VAT) - 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)		4,515.00
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

  
 JOSEPHINE B. RENGULIO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

  
 JERALD B. BARRERA  
 Engineer II  
 DPWH RO9



**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : B.7 Occupational Safety and Health Program

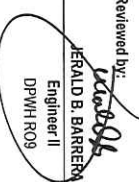
Quantity : 1.00  
 Unit of Measurement : ls.  
 Output per hour - As Submitted : 1.00  
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>A.1</b>				
Labor				0.00
Safety Practitioner	1	714.00	58.61	41,847.54
First Aider	1	2,856.00	45.16	128,976.96
				0.00
				0.00
Sub - Total for A.1 - As Submitted				170,824.50
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
<b>B.1</b>				
Equipment				-
				-
Sub - Total for B.1 - As Submitted				-
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				170,824.50
<b>C.1</b>				
Total (A.1 + B.1) - As Submitted				
<b>C.2</b>				
Total (A.2 + B.2) - As Evaluated				-
<b>D.1</b>				
Output per hour - As Submitted				1.00
<b>D.2</b>				
Output per hour - As Evaluated				1.00
<b>E.1</b>				
Direct Unit Cost (C.1 + D.1) - As Submitted				170,824.50
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
<b>F.1</b>				
Materials				
Rubber Boots/ten Long w/ Steel Toe, Black	pc.	30.00	500.00	15,000.00
Working Gloves (Maong Materials)	pc	30.00	50.00	1,500.00
Rain Coats (Reinforced Hip)	bd.ft.	30.00	300.00	9,000.00
First Aide Kit (Complete medicines & tools)	set	1.00	2,500.00	2,500.00
Bandages/Signboards	pcs.	15.00	1,400.00	21,000.00
Sub - Total for F.1 - As Submitted				49,000.00
Materials				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				219,824.50
<b>G.2</b>				
Direct Unit Cost (E.2 + F.2) - As Evaluated				-
<b>H.1</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	21,982.45
<b>H.2</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	-
<b>I.1</b>				
Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	17,585.96
<b>I.2</b>				
Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
<b>J.1</b>				
Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	12,595.65
<b>J.2</b>				
Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
<b>K.1</b>				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	272,387.56
<b>K.2</b>				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

  
 JOSEPHINE B. RENGOLOTO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

  
 GERALD B. BARRERA  
 Engineer II  
 DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : B.9 Mobilization/Demobilization

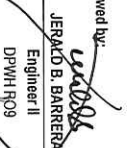
Quantity : 1.00  
 Unit of Measurement : l.s.  
 Output per hour - As Submitted : 1.00  
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>A.1</b>				
Labor				0.00
				0.00
Sub - Total for A.1 - As Submitted				0.00
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>B.1</b>				
Equipment				
Low Bed Trailer	4	28.00	4,255.38	476,602.56
				-
Sub - Total for B.1 - As Submitted				476,602.56
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
				476,602.56
<b>C.1</b>				
Total (A.1 + B.1) - As Submitted				-
<b>C.2</b>				
Total (A.2 + B.2) - As Evaluated				1.00
<b>D.1</b>				
Output per hour - As Submitted				1.00
<b>D.2</b>				
Output per hour - As Evaluated				476,602.56
<b>E.1</b>				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (PHP)</b>
<b>Materials</b>				
				-
				-
				-
				-
<b>F.1</b>				
				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				-
<b>Materials</b>				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				476,602.56
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
<b>G.2</b>				
Direct Unit Cost (E.2 + F.2) - As Evaluated				47,660.26
<b>H.1</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	-
<b>H.2</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	38,128.20
<b>I.1</b>				
Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	-
<b>I.2</b>				
Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	28,119.55
<b>J.1</b>				
Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	-
<b>J.2</b>				
Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	589,510.57
<b>K.1</b>				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	-
<b>K.2</b>				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

  
 JOSEPHINE B. RENGQUIDO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

  
 JERALD B. BARRENA  
 Engineer II  
 DPWH RO9

ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO  
ZAMBOANGA DEL NORTE  
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 100(3)at Individual Removal of Trees

Quantity : 80.00  
Unit of Measurement : each  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>A.1</b>				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled laborer	1	1.00	58.61	58.61
Laborers	2	1.00	45.16	90.31
Sub - Total for A.1 - As Submitted				229.87
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
Backhoe	1	0.25	1,537.00	384.25
Dump truck	1	0.17	1,420.00	241.40
Chain Saw	1	0.17	75.36	12.81
Minor Tools 5% of Labor Cost				11.49
Sub - Total for B.1 - As Submitted				649.95
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>	Total (A.1 + B.1) - As Submitted			
<b>C.2</b>	Total (A.2 + B.2) - As Evaluated			
<b>D.1</b>	Output per hour - As Submitted			
<b>D.2</b>	Output per hour - As Evaluated			
<b>E.1</b>	Direct Unit Cost (C.1 ÷ D.1) - As Submitted			
<b>E.2</b>	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated			
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php)</b>
<b>Materials</b>				
Rope, 1" dia. - 5 uses	m.	4.00	25.00	100.00
<b>F.1</b>				
Sub - Total for F.1 - As Submitted				100.00
<b>Materials</b>				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>	Direct Unit Cost (E.1 + F.1) - As Submitted			
<b>G.2</b>	Direct Unit Cost (E.2 + F.2) - As Evaluated			
<b>H.1</b>	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			
<b>H.2</b>	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			
<b>I.1</b>	Contractor's Profit (CP) - As Submitted			
<b>I.2</b>	Contractor's Profit (CP) - As Evaluated			
<b>J.1</b>	Value Added Tax (VAT) - As Submitted			
<b>J.2</b>	Value Added Tax (VAT) - As Evaluated			
<b>K.1</b>	Total Unit Cost - As Submitted			
<b>K.2</b>	Total Unit Cost - As Evaluated			

Prepared by:

JOSEPHINE B. RENIGUINO

Engineer II  
DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA

Engineer II  
DPWH RO9



ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO  
ZAMBOANGA DEL NORTE  
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 100(3)a2 Individual Removal of Trees

Quantity : 362.00  
Unit of Measurement : each  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>A.1</b>				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled laborer	1	1.00	58.61	58.61
Laborers	2	1.00	45.16	90.31
Sub - Total for A.1 - As Submitted				229.87
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount (PHP)</b>
<b>Equipment</b>				
Backhoe	1	0.50	1,537.00	768.50
Dump truck	1	0.33	1,420.00	468.60
Chain Saw	1	0.33	75.36	24.87
Minor Tools 5% of Labor Cost				11.49
Sub - Total for B.1 - As Submitted				1,273.46
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>	Total (A.1 + B.1) - As Submitted			
	1,503.34			
<b>C.2</b>	Total (A.2 + B.2) - As Evaluated			
	-			
<b>D.1</b>	Output per hour - As Submitted			
	1.00			
<b>D.2</b>	Output per hour - As Evaluated			
	1.00			
<b>E.1</b>	Direct Unit Cost (C.1 + D.1) - As Submitted			
	1,503.34			
<b>E.2</b>	Direct Unit Cost (C.2 + D.2) - As Evaluated			
	-			
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (PHP)</b>
<b>Materials</b>				
Rope, 1" dia. - 5 uses	m.	4.00	25.00	100.00
<b>F.1</b>				
Sub - Total for F.1 - As Submitted				100.00
<b>Materials</b>				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>	Direct Unit Cost (E.1 + F.1) - As Submitted			
	1,603.34			
<b>G.2</b>	Direct Unit Cost (E.2 + F.2) - As Evaluated			
	-			
<b>H.1</b>	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			
	15% / 12% / 10% / 8% of G.1			
	160.33			
<b>H.2</b>	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			
	15% / 12% / 10% / 8% of G.2			
	-			
<b>I.1</b>	Contractor's Profit (CP) - As Submitted			
	10% / 8% of G.1			
	128.27			
<b>I.2</b>	Contractor's Profit (CP) - As Evaluated			
	10% / 8% of G.2			
	-			
<b>J.1</b>	Value Added Tax (VAT) - As Submitted			
	5% of (G.1 + H.1 + I.1)			
	14.43			
<b>J.2</b>	Value Added Tax (VAT) - As Evaluated			
	5% of (G.2 + H.2 + I.2)			
	-			
<b>K.1</b>	Total Unit Cost - As Submitted			
	(G.1 + H.1 + I.1 + J.1)			
	1,906.37			
<b>K.2</b>	Total Unit Cost - As Evaluated			
	(G.2 + H.2 + I.2 + J.2)			
	-			

Prepared by:

JOSEPHINE B. MINGULIO

Engineer II

DPWH B09

Checked/Reviewed by:

JERALD B. BARRERA

Engineer II

DPWH R09

ROAD WIDENING - DIPOLONG - PUNTA - DANGSULAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTESUR BOUNDARY SO1056MM  
ZAMBOANGA DEL NORTE  
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 101(8) Removal of Existing Guardrails

Quantity : 2,324.41  
Unit of Measurement : In.m.  
Output per hour - As Submitted : 14.40  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>A.1</b>				
Labor				
Const. Foremen	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
Sub - Total for A.1 - As Submitted				172.26
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount (PHP)</b>
<b>Equipment</b>				
<b>B.1</b>				
Cargo Truck	1	0.50	1,212.00	606.00
Minor Tools (10% of Labor)				17.23
Sub - Total for B.1 - As Submitted				623.23
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				795.49
Total (A.1 + B.1) - As Submitted				
<b>C.2</b>				-
Total (A.2 + B.2) - As Evaluated				
<b>D.1</b>				14.40
Output per hour - As Submitted				
<b>D.2</b>				14.40
Output per hour - As Evaluated				
<b>E.1</b>				55.24
Direct Unit Cost (C.1 + D.1) - As Submitted				
<b>E.2</b>				-
Direct Unit Cost (C.2 + D.2) - As Evaluated				
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (PHP)</b>
<b>Materials</b>				
<b>F.1</b>				
Sub - Total for F.1 - As Submitted				-
<b>Materials</b>				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>				55.24
Direct Unit Cost (E.1 + F.1) - As Submitted				
<b>G.2</b>				-
Direct Unit Cost (E.2 + F.2) - As Evaluated				
<b>H.1</b>			15% / 12% / 10% / 8% of G.1	5.52
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.2	-
<b>H.2</b>			10% / 8% of G.1	4.42
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			10% / 8% of G.2	-
<b>I.1</b>			5% of (G.1 + H.1 + I.1)	0.50
Contractor's Profit (CP) - As Submitted			5% of (G.2 + H.2 + I.2)	-
<b>J.1</b>			(G.1 + H.1 + I.1 + J.1)	
Value Added Tax (VAT) - As Evaluated			(G.2 + H.2 + I.2 + J.2)	55.68
<b>J.2</b>				-
Value Added Tax (VAT) - As Submitted				
<b>K.1</b>				
Total Unit Cost - As Evaluated				-
<b>K.2</b>				
Total Unit Cost - As Evaluated				-

Prepared by:

JOSEPHINE B. RENGOLDO

Engineer II  
DPWH RO9

Checked/Reviewed by:

JEPALD B. BARRERA

Engineer II  
DPWH RO9

### DETAILED UNIT PRICE ANALYSIS (DUPA)

### Removal of Existing Guardrail Posts

Quantity	602.00
Unit of Measurement	each
Output per hour - As Submitted	2.00
Output per hour - As Evaluated	

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
	Labor				
A.1	Const. Foreman	1	1.00	80.95	80.95
	Laborers	2	1.00	45.16	90.31
	Sub - Total for A.1 - As Submitted				172.26
	Labor				
A.2					
	Sub - Total for A.2 - As Evaluated				
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
	Equipment				
B.1	Backhoe	1	0.50	1,537.00	768.50
	Cargo Truck	1	0.50	1,212.00	606.00
	Sub - Total for B.1 - As Submitted				1,374.50
	Equipment				
B.2					
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				1,546.76
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				2.00
D.2	Output per hour - As Evaluated				2.00
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				773.38
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				773.38
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		77.34
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
I.1	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		61.87
I.2	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		6.96
J.2	Value Added Tax (VAT) - 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)		919.55
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II  
DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA

Engineer II  
DPWH RO9



ROAD WIDENING - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR BOUNDARY SO1056MN  
ZAMBOANGA DEL NORTE  
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 101(10) Removal of Existing Road Signages

Quantity : 264.00  
Unit of Measurement : each  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>A.1</b>				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
Sub - Total for A.1 - As Submitted				172.26
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
Backhoe	1	0.50	1,537.00	768.50
Cargo Truck	1	0.50	1,212.00	606.00
Sub - Total for B.1 - As Submitted				1,374.50
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				1,546.76
Total (A.1 + B.1) - As Submitted				-
<b>C.2</b>				1.00
Output per hour - As Submitted				1.00
<b>D.1</b>				
Output per hour - As Evaluated				1,546.76
<b>E.1</b>				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php)</b>
<b>Materials</b>				
<b>F.1</b>				
Sub - Total for F.1 - As Submitted				-
<b>Materials</b>				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				1,546.76
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
<b>G.2</b>				154.58
Direct Unit Cost (E.2 + F.2) - As Evaluated				-
<b>H.1</b>			15% / 12% / 10% / 8% of G.1	-
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.2	123.74
<b>H.2</b>			10% / 8% of G.1	-
Contractor's Profit (CP) - As Submitted			10% / 8% of G.2	13.92
<b>I.1</b>			5% of (G.1 + H.1 + I.1)	-
Value Added Tax (VAT) - As Submitted			5% of (G.2 + H.2 + I.2)	1,339.10
<b>J.1</b>				
Value Added Tax (VAT) - As Evaluated				-
<b>J.2</b>				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	-
<b>K.1</b>				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-
<b>K.2</b>				

Prepared by:

JOSEPHINE B. RENGUJON  
Engineer II  
DPWH-RO9

Checked/Reviewed by:

JERARD B. BARRERA  
Engineer II  
DPWH-RO9

# DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 102(3)a Surplus Rock Excavation

Quantity : 11,822.50  
Unit of Measurement : cu.m.  
Output per hour - As Submitted : 56.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>A.1</b>				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
Sub - Total for A.1 - As Submitted				172.26
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>B.1</b>				
Equipment				
Bulldozer w/ ripper	1	1.00	3,885.85	3,885.85
Payloader	1	1.00	1,733.00	1,733.00
Payloader	1	0.25	1,733.00	433.25
Dump Truck	2	1.00	1,420.00	2,840.00
Backhoe w/ breaker	1	1.00	1,998.10	1,998.10
Sub - Total for B.1 - As Submitted				10,890.20
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				
Total (A.1 + B.1) - As Submitted				11,082.46
<b>C.2</b>				
Total (A.2 + B.2) - As Evaluated				-
<b>D.1</b>				
Output per hour - As Submitted				56.00
<b>D.2</b>				
Output per hour - As Evaluated				56.00
<b>E.1</b>				
Direct Unit Cost (C.1 + D.1) - As Submitted				197.54
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php)</b>
<b>Materials</b>				
<b>F.1</b>				
Sub - Total for F.1 - As Submitted				-
Materials				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				197.54
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
<b>G.2</b>				
Direct Unit Cost (E.2 + F.2) - As Evaluated				197.54
<b>H.1</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	19.75
<b>H.2</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	-
<b>I.1</b>				
Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	15.80
<b>I.2</b>				
Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
<b>J.1</b>				
Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	11.66
<b>J.2</b>				
Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
<b>K.1</b>				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	244.76
<b>K.2</b>				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPH E. B. REYGAQUINO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

JERARD B. BARRERA  
Engineer II  
DPWH RO9

Engineer II  
DPWH RO9

# DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 1,579.00

Unit of Measurement : Cum.

Output per hour - As Submitted : 20.00

Output per hour - As Evaluated :

Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (PHP)
<b>A.1</b>				
Labor				
Consl. Foreman	1	1.00	80.95	80.95
Laboers	3	1.00	45.16	135.47
Sub - Total for A.1 - As Submitted				217.42
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
Equipment				
Dump Truck	2	1.00	1,420.00	2,840.00
Backhoe	1	1.00	1,537.00	1,537.00
Minor Tools(10 % of Labor)				2.17
Sub - Total for B.1 - As Submitted				-
Equipment				4,379.17
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				4,596.59
Total (A.1 + B.1) - As Submitted				
<b>C.2</b>				-
Total (A.2 + B.2) - As Evaluated				
<b>D.1</b>				20.00
Output per hour - As Submitted				
<b>D.2</b>				20.00
Output per hour - As Evaluated				
<b>E.1</b>				229.83
Direct Unit Cost (C.1 + D.1) - As Submitted				
<b>E.2</b>				-
Direct Unit Cost (C.2 + D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
<b>F.1</b>				
Sub - Total for F.1 - As Submitted				-
Materials				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				229.83
<b>G.1</b>				-
Direct Unit Cost (E.1 + F.1) - As Submitted				
<b>G.2</b>				22.98
Direct Unit Cost (E.2 + F.2) - As Evaluated				
<b>H.1</b>			15% / 12% / 10% / 8% of G.1	
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.2	-
<b>H.2</b>			10% / 8% of G.1	18.39
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			10% / 8% of G.2	-
<b>I.1</b>			5% of (G.1 + H.1 + I.1)	13.56
Contractor's Profit (CP) - As Submitted			5% of (G.2 + H.2 + I.2)	-
<b>J.1</b>			5% of (G.1 + H.1 + I.1)	
Value Added Tax (VAT) - As Submitted			5% of (G.2 + H.2 + I.2)	
<b>J.2</b>			5% of (G.1 + H.1 + I.1)	
Value Added Tax (VAT) - As Evaluated			(G.1 + H.1 + I.1 + J.1)	284.76
<b>K.1</b>			(G.1 + H.1 + I.1 + J.1)	
Total Unit Cost - As Submitted			(G.2 + H.2 + I.2 + J.2)	-
<b>K.2</b>				
Total Unit Cost - As Evaluated				

Prepared by:

JOSEPHINE B. RENGUANO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA  
Engineer II  
DPWH RO9

Engineer II  
DPWH RO9



# DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 103(3) Foundation Fill

Quantity : 22.50  
Unit of Measurement : cum.  
Output per hour - As Submitted : 1.25  
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Constl. Foreman	1	1.00	80.95	80.95
	Labors	4	1.00	45.16	180.63
	Sub - Total for A.1 - As Submitted				262.58
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Plate Compactor	1	1.00	123.00	123.00
	Water truck	1	0.01	2,450.00	24.50
	Minor Tools (10 % of Labor)				2.53
B.2	Sub - Total for B.1 - As Submitted				150.13
	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				412.70
	Total (A.2 + B.2) - As Evaluated				-
	Output per hour - As Submitted				1.25
	Output per hour - As Evaluated				1.25
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				330.16
	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Materials				
	Filling Materials	cum.	1.15	627.80	721.97
					-
					-
F.2	Sub - Total for F.1 - As Submitted				721.97
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				1,052.13
	Direct Unit Cost (E.1 + F.1) - As Submitted				-
	Direct Unit Cost (E.2 + F.2) - As Evaluated				105.21
	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
			10% / 8% of G.1		84.17
	Contractor's Profit (CP) - As Submitted		10% / 8% of G.2		-
	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		62.08
J.1	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		-
			(G.1 + H.1 + I.1 + J.1)		1,303.59
	Total Unit Cost - As Submitted				-
	Total Unit Cost - As Evaluated				(G.2 + H.2 + I.2 + J.2)

Prepared by:

JOSEPHINE B. RENOQUIO  
Engineer II  
DPWH RO9

Checked/Reviewed by:


GERALD B. BARRERA  
Engineer II  
DPWH RO9

### Pipe Culvert and Drain Excavation

```

:      103(6)a
:
:      47.00
:      cu.m.
:      20.00
:

```

by:   
JOSEPHINE B. RENGQUINO  
Engineer II  
DPWH-RO9

Checked/Reviewed by

JERALD B. BARBERA

Engineer II  
DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 37,514.00  
Unit of Measurement : cum.  
Output per hour - As Submitted : 50.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Excavation Work:				
Constl. Foremen	1	0.83	80.95	67.19
Labors	2	0.83	45.16	74.96
<b>A.1</b>				
Spreading & Compaction:				
Constl. Foremen	1	1.00	80.95	80.95
Labors	2	1.00	45.16	90.31
<b>Sub - Total for A.1 - As Submitted</b>				<b>314.41</b>
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
Excavation Work:				
Buildozer	1	0.83	3,379.00	2,804.57
Payloader	1	0.83	1,733.00	1,438.39
Dump Truck	2	0.83	1,420.00	2,357.20
<b>B.1</b>				
Spreading & Compaction:				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Water Truck	1	0.25	2,450.00	612.50
<b>Sub - Total for B.1 - As Submitted</b>				<b>11,231.66</b>
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				<b>11,546.07</b>
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				<b>-</b>
<b>D.1 Output per hour - As Submitted</b>				<b>50.00</b>
<b>D.2 Output per hour - As Evaluated</b>				<b>50.00</b>
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				<b>230.92</b>
<b>E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				<b>-</b>
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php)</b>
<b>Materials</b>				
<b>F.1</b>				
<b>Sub - Total for F.1 - As Submitted</b>				<b>-</b>
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				<b>230.92</b>
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				<b>-</b>
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>		15% / 12% / 10% / 8% of G.1		<b>23.09</b>
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.2		<b>-</b>
<b>I.1 Contractor's Profit (CP) - As Submitted</b>		10% / 8% of G.1		<b>18.47</b>
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>		10% / 8% of G.2		<b>-</b>
<b>J.1 Value Added Tax (VAT) - As Submitted</b>		5% of (G.1 + H.1 + I.1)		<b>13.52</b>
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>		5% of (G.2 + H.2 + I.2)		<b>-</b>
<b>K.1 Total Unit Cost - As Submitted</b>		(G.1 + H.1 + I.1 + J.1)		<b>286.11</b>
<b>K.2 Total Unit Cost - As Evaluated</b>		(G.2 + H.2 + I.2 + J.2)		<b>-</b>

Prepared by:

JOSEPHINE B. REINQUILLO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

JERKALD B. BARRERA  
Engineer II  
DPWH RO9



**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 104(2)a Embankment from Borrow

Quantity : 26,228.00  
Unit of Measurement : cum.  
Output per hour - As Submitted : 50.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>Labor</b>				
Excavation Work:				
Const. Foremen	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
			0.00	0.00
			0.00	0.00
<b>Sub - Total for A.1 - As Submitted</b>				172.26
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</b>				
<b>Equipment</b>				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Water Truck	1	0.25	2,450.00	612.50
<b>Sub - Total for B.1 - As Submitted</b>				4,631.50
<b>Equipment</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				4,803.76
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				-
<b>D.1 Output per hour - As Submitted</b>				50.00
<b>D.2 Output per hour - As Evaluated</b>				50.00
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				96.08
<b>E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				-
<b>Materials</b>				
Common Borrow (w/ 25 % shrinkage factor)	cum.	1.25	527.80	659.75
				-
				-
				-
				-
<b>Sub - Total for F.1 - As Submitted</b>				659.75
<b>Materials</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				755.83
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				-
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>			15% / 12% / 10% / 8% of G.1	75.58
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>			15% / 12% / 10% / 8% of G.2	-
<b>I.1 Contractor's Profit (CP) - As Submitted</b>			10% / 8% of G.1	60.47
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>			10% / 8% of G.2	-
<b>J.1 Value Added Tax (VAT) - As Submitted</b>			5% of (G.1 + H.1 + I.1)	44.59
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>			5% of (G.2 + H.2 + I.2)	-
<b>K.1 Total Unit Cost - As Submitted</b>			(G.1 + H.1 + I.1 + J.1)	936.47
<b>K.2 Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. REYNOLDO

Engineer II

Checked/Reviewed by:

JERALD B. BARRERA

Engineer II

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 105(1)a Subgrade Preparation

Quantity : 39,233.00  
 Unit of Measurement : sq.m.  
 Output per hour - As Submitted : 300.00  
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>A.1</b>				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
				0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				<b>172.26</b>
Labor				
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Water Truck	1	0.25	2,450.00	612.50
<b>B.1</b>				
				-
				-
<b>Sub - Total for B.1 - As Submitted</b>				<b>4,631.50</b>
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1</b>				<b>4,803.76</b>
<b>C.2</b>				<b>-</b>
<b>D.1</b>				<b>300.00</b>
<b>D.2</b>				<b>300.00</b>
<b>E.1</b>				<b>16.01</b>
<b>E.2</b>				<b>-</b>
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php)</b>
<b>Materials</b>				
<b>F.1</b>				
				-
				-
				-
<b>Sub - Total for F.1 - As Submitted</b>				<b>-</b>
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1</b>				<b>16.01</b>
<b>G.2</b>				<b>-</b>
<b>H.1</b>			15% / 12% / 10% / 8% of G.1	<b>1.60</b>
<b>H.2</b>			15% / 12% / 10% / 8% of G.2	<b>-</b>
<b>I.1</b>			10% / 8% of G.1	<b>1.28</b>
<b>I.2</b>			10% / 8% of G.2	<b>-</b>
<b>J.1</b>			5% of (G.1 + H.1 + I.1)	<b>0.94</b>
<b>J.2</b>			5% of (G.2 + H.2 + I.2)	<b>-</b>
<b>K.1</b>			(G.1 + H.1 + I.1 + J.1)	<b>19.84</b>
<b>K.2</b>			(G.2 + H.2 + I.2 + J.2)	<b>-</b>
<b>Total Unit Cost - As Evaluated</b>				<b>-</b>

Prepared by:

JOSEPHINE B. RENGOLINO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

JERALDO B. BARRERA  
 Engineer II  
 DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 200(1) Aggregate Subbas Course

Quantity : 16,479.00  
Unit of Measurement : cum.  
Output per hour - As Submitted : 50.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>Labor</b>				
Constl. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
				0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				172.26
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (PHP)</b>
<b>Equipment</b>				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Water Truck	1	0.25	2,450.00	612.50
				-
				-
				-
<b>Sub - Total for B.1 - As Submitted</b>				4,631.50
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				4,803.76
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				-
<b>D.1 Output per hour - As Submitted</b>				50.00
<b>D.2 Output per hour - As Evaluated</b>				50.00
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				96.08
<b>E.2 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>Materials</b>				
Aggregate Subbase Course	cum.	1.15	727.80	836.97
(w/ 15% shrinkage)				-
				-
				-
				-
<b>Sub - Total for F.1 - As Submitted</b>				836.97
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				933.05
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				-
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>		15% / 12% / 10% / 8% of G.1		93.30
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.2		-
<b>I.1 Contractor's Profit (CP) - As Submitted</b>		10% / 8% of G.1		74.64
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>		10% / 8% of G.2		-
<b>J.1 Value Added Tax (VAT) - As Submitted</b>		5% of (G.1 + H.1 + I.1)		55.05
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>		5% of (G.2 + H.2 + I.2)		-
<b>K.1 Total Unit Cost - As Submitted</b>		(G.1 + H.1 + I.1 + J.1)		1,156.04
<b>K.2 Total Unit Cost - As Evaluated</b>		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RINGOLINO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

GERALD B. BARRERA  
Engineer II  
DPWH RO9



**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./Description : 300(1) Gravel Surface Course

Quantity : 1,507.50  
 Unit of Measurement : cu.m.  
 Output per hour - As Submitted : 50.00  
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>Labor</b>				
Constl. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
			0.00	0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				172.26
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (PHP)</b>
<b>Equipment</b>				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Water Truck	1	0.25	2,450.00	612.50
				-
				-
				-
				-
<b>Sub - Total for B.1 - As Submitted</b>				4,631.50
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				4,803.76
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				-
<b>D.1 Output per hour - As Submitted</b>				50.00
<b>D.2 Output per hour - As Evaluated</b>				50.00
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				96.08
<b>E.2 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>Materials</b>				
Gravel Surface Course	cum.	1.15	902.80	1,038.22
(w/ 15% shrinkage)				-
<b>F.1</b>				-
				-
				-
				-
<b>Sub - Total for F.1 - As Submitted</b>				1,038.22
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				1,134.30
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				-
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				113.43
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>		15% / 12% / 10% / 8% of G.1		-
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.2		90.74
<b>I.1 Contractor's Profit (CP) - As Submitted</b>		10% / 8% of G.1		-
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>		10% / 8% of G.2		66.92
<b>J.1 Value Added Tax (VAT) - As Submitted</b>		5% of (G.2 + H.1 + I.1)		-
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>		5% of (G.2 + H.2 + I.2)		1,405.39
<b>K.1 Total Unit Cost - As Submitted</b>		(G.1 + H.1 + I.1 + J.1)		-
<b>K.2 Total Unit Cost - As Evaluated</b>		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. REYESQUILLO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

JERATO B. BARRERA  
 Engineer II  
 DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 311(1)a Portland Cement Concrete Pavement, 0.15m. Thk.

Quantity : 4,072.50  
Unit of Measurement : sqm.  
Output per hour - As Submitted : 107.33  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Constl. Foreman	1	1.00	80.95	80.95
A.1 Skilled laborer	4	1.00	58.61	234.44
Laborers	12	1.00	45.16	541.88
<b>Sub - Total for A.1 - As Submitted</b>				<b>858.27</b>
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</b>				
<b>Equipment</b>				
Transit Mixer	4	1.00	1,318.00	5,272.00
Concrete Vibrator	2	1.00	91.25	182.50
Concrete Batch Plant	1	1.00	1,759.50	1,759.50
Payloader	1	1.00	1,733.00	1,733.00
Concrete Screeder	1	1.00	545.00	545.00
Water Truck/Pump	1	1.00	2,450.00	2,450.00
Concrete Saw	1	1.00	32.63	32.63
Bar Cutter	1	0.10	219.75	21.98
Minor Tools (5% of Labor Cost)				42.91
<b>Sub - Total for B.1 - As Submitted</b>				<b>12,039.52</b>
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1</b>				<b>12,897.78</b>
<b>Total (A.1 + B.1) - As Submitted</b>				
<b>C.2</b>				
<b>Total (A.2 + B.2) - As Evaluated</b>				
<b>D.1</b>				<b>107.33</b>
<b>Output per hour - As Submitted</b>				
<b>D.2</b>				<b>107.33</b>
<b>Output per hour - As Evaluated</b>				
<b>E.1</b>				<b>120.17</b>
<b>Direct Unit Cost (C.1 + D.1) - As Submitted</b>				
<b>E.2</b>				
<b>Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				
<b>Materials</b>				
Reinforcing Steel Bar	kg.	0.33	43.00	14.19
Curing Compound	L.	0.29	40.00	11.60
Asphalt Sealant	L.	0.12	75.00	9.00
Steel Forms	m	0.46	60.00	27.60
Fine Aggregates	cum.	0.0825	943.80	77.86
Coarse Aggregates	cum.	0.15	827.80	124.17
Portland Cement	bag	1.43	286.81	410.13
Concrete Saw (Diamond Blade 14" dia.)	pc.	0.00015	8,000.00	1.20
Pipe Sleeve, 1" dia.	m	0.0078	40.00	0.31
Grease/Tar	L.	0.0015	21.00	0.03
<b>Sub - Total for F.1 - As Submitted</b>				<b>676.10</b>
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1</b>				<b>796.27</b>
<b>Direct Unit Cost (E.1 + F.1) - As Submitted</b>				
<b>G.2</b>				
<b>Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				
<b>H.1</b>				<b>79.63</b>
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>				
<b>H.2</b>				
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>				
<b>I.1</b>				<b>63.70</b>
<b>Contractor's Profit (CP) - As Submitted</b>				
<b>I.2</b>				
<b>Contractor's Profit (CP) - As Evaluated</b>				
<b>J.1</b>				<b>46.98</b>
<b>Value Added Tax (VAT) - As Submitted</b>				
<b>J.2</b>				
<b>Value Added Tax (VAT) - As Evaluated</b>				
<b>K.1</b>				<b>986.58</b>
<b>Total Unit Cost - As Submitted</b>				
<b>K.2</b>				
<b>Total Unit Cost - As Evaluated</b>				

Prepared by:

JOSEPHINE B. RENIGUINO  
Engineer II  
DPWH-RO9

Checked/Reviewed by:

JEFALD B. BARRERA  
Engineer II  
DPWH-RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 311(1)el Portland Cement Concrete Pavement, 0.28m. Thk.

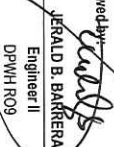
Quantity : 29,414.50  
Unit of Measurement : sqm.  
Output per hour - As Submitted : 57.50  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>A.1</b>				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	4	1.00	58.61	234.44
Laborers	12	1.00	45.16	541.88
<b>Sub - Total for A.1 - As Submitted</b>				<b>856.27</b>
Labor				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</b>				
<b>Equipment</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
Transit Mixer	4	1.00	1,318.00	5,272.00
Concrete Vibrator	2	1.00	91.25	182.50
Concrete Batch Plant	1	1.00	1,759.50	1,759.50
Payloader	1	1.00	1,733.00	1,733.00
Concrete Screeder	1	1.00	545.00	545.00
Water Truck/Pump	1	1.00	2,450.00	2,450.00
Concrete Saw	1	1.00	32.63	32.63
Bar Cutter	1	0.10	219.75	21.98
Minor Tools (5% of Labor Cost)				42.91
<b>Sub - Total for B.1 - As Submitted</b>				<b>12,039.52</b>
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				<b>12,897.78</b>
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				
<b>D.1 Output per hour - As Submitted</b>				<b>57.50</b>
<b>D.2 Output per hour - As Evaluated</b>				<b>57.50</b>
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				<b>224.31</b>
<b>E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				
<b>Materials</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (Php)</b>
Reinforcing Steel Bar	kg.	0.50	43.00	21.50
Curing Compound	L.	0.29	40.00	11.60
Asphalt Sealant	L.	0.17	75.00	12.75
Steel Forms	m	0.46	60.00	27.60
Fine Aggregates	cum.	0.1540	943.80	145.35
Coarse Aggregates	cum.	0.28	827.80	231.78
Portland Cement	bag	2.66	286.81	762.90
Concrete Saw (Diamond Blade 14" dia.)	pc.	0.00015	8,000.00	1.20
Pipe Sleeve, 1" dia.	m	0.00078	40.00	0.31
Grease/Tar	L.	0.00078	21.00	0.16
<b>Sub - Total for F.1 - As Submitted</b>				<b>1,215.16</b>
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				<b>1,439.47</b>
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>		15% / 12% / 10% / 8% of G.1		<b>143.95</b>
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.2		
<b>I.1 Contractor's Profit (CP) - As Submitted</b>		10% / 8% of G.1		<b>115.16</b>
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>		10% / 8% of G.2		
<b>J.1 Value Added Tax (VAT) - As Submitted</b>		5% of (G.1 + H.1 + I.1)		<b>84.93</b>
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>		5% of (G.2 + H.2 + I.2)		
<b>K.1 Total Unit Cost - As Submitted</b>		(G.1 + H.1 + I.1 + J.1)		<b>1,783.50</b>
<b>K.2 Total Unit Cost - As Evaluated</b>		(G.2 + H.2 + I.2 + J.2)		

Prepared by:

  
**JOSEPHINE B. RENGQUINO**  
Engineer II  
DPWH RO9

Checked/Reviewed by:

  
**GERALD B. BARRERA**  
Engineer II  
DPWH RO9



**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 29,481.50  
 Unit of Measurement : kg.  
 Output per hour - As Submitted : 180.00  
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Const. Foreman	1	1.00	80.95	80.95
A.1 Skilled Laborer	2	1.00	58.61	117.22
Laborers	8	1.00	45.16	361.25
<b>Sub - Total for A.1 - As Submitted</b>				<b>479.47</b>
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</b>				
<b>Equipment</b>				
<b>B.1</b>				
Bar Cutter	1	1.00	219.75	219.75
Bar Bender	1	1.00	351.50	351.50
Cargo Truck	1	0.15	121.00	18.15
<b>Sub - Total for B.1 - As Submitted</b>				<b>589.40</b>
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1</b>				
<b>C.2</b>				
<b>D.1</b>				
<b>D.2</b>				
<b>E.1</b>				
<b>E.2</b>				
<b>F.1</b>				
<b>F.2</b>				
<b>G.1</b>				
<b>G.2</b>				
<b>H.1</b>				
<b>H.2</b>				
<b>I.1</b>				
<b>I.2</b>				
<b>J.1</b>				
<b>J.2</b>				
<b>K.1</b>				
<b>K.2</b>				

Prepared by:

JOSEPHINE B. RENGUJIO  
 Engineer I  
 DPWH RO9

Checked/Reviewed by:

JEFFALD B. BARRERA  
 Engineer II  
 DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
ZAMBOANGA DEL NORTE  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 952.50  
Unit of Measurement : cum.  
Output per hour - As Submitted : 1.40  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	4	1.00	58.61	234.44
Laborers	8	1.00	45.16	361.25
<b>A.1</b>				
Installation/Removal of Formworks				
Skilled Laborers	4	1.00	58.61	234.44
Laborers	8	1.00	45.16	361.25
<b>Sub - Total for A.1 - As Submitted</b>				1,192.38
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
One Bagger Mixer	1	1.00	172.00	172.00
Concrete Vibrator	1	1.00	91.25	91.25
Water Truck/Pump	1	0.10	2,450.00	245.00
<b>B.1</b>				
Minor Tools (5% of Labor Cost)				59.52
<b>Sub - Total for B.1 - As Submitted</b>				567.87
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				1,760.25
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				
<b>D.1 Output per hour - As Submitted</b>				1.40
<b>D.2 Output per hour - As Evaluated</b>				1.40
<b>E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted</b>				1,257.32
<b>E.2 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>Materials</b>				
Lumber	kg.	17.50	36.00	630.00
Marine Plywood	L.	0.40	435.00	174.00
Assorted CWN	L.	0.70	55.00	38.50
Portland Cement	bag	9.50	286.81	2,724.65
Fine Aggregates	cum.	0.50	943.80	471.90
Coarse Aggregates	cum.	1.00	827.80	827.80
<b>Sub - Total for F.1 - As Submitted</b>				-
<b>Materials</b>				4,866.85
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				6,124.17
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>			15% / 12% / 10% / 8% of G.1	612.42
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>			15% / 12% / 10% / 8% of G.2	-
<b>I.1 Contractor's Profit (CP) - As Submitted</b>			10% / 8% of G.1	489.93
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>			10% / 8% of G.2	-
<b>J.1 Value Added Tax (VAT) - As Submitted</b>			5% of (G.1 + H.1 + I.1)	361.33
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>			5% of (G.2 + H.2 + I.2)	-
<b>K.1 Total Unit Cost - As Submitted</b>			(G.1 + H.1 + I.1 + J.1)	7,587.85
<b>K.2 Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. NENEGUJO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

GERALD B. BARKERA  
Engineer II  
DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 500(1)b3 Pipe Culvert & Storm Drain, 910 mm dia.

Quantity : 51.00  
Unit of Measurement : In.m.  
Output per hour - As Submitted : 2.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Const. Foreman	1	0.57	80.95	46.14
Skilled Laborers	2	0.57	58.61	66.82
Laboreis	4	0.57	45.16	102.96
<b>A.1</b>				
				0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				170.77
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</b>				
<b>Equipment</b>				
Backhoe	1	0.29	1,537.00	445.73
Plate Compactor	1	0.29	123.00	35.67
<b>B.1</b>				
				-
				-
				-
Minor Tools (10 % of Labor Cost)				17.08
<b>Sub - Total for B.1 - As Submitted</b>				498.48
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				669.25
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				-
<b>C.2 Output per hour - As Submitted</b>				2.00
<b>D.2 Output per hour - As Evaluated</b>				334.62
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				-
<b>E.2 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>Materials</b>				-
Portland Cement	bag	1.08	286.81	309.75
Fine Aggregates	cum.	0.061	943.80	57.57
RC Pipes	pc.	1.00	2,200.00	2,200.00
Sand Bedding	cum.	0.128	943.80	120.81
				-
				-
<b>Sub - Total for F.1 - As Submitted</b>				2,688.13
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				3,022.75
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				-
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				302.28
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>			15% / 12% / 10% / 8% of G.1	-
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>			15% / 12% / 10% / 8% of G.2	241.82
<b>I.1 Contractor's Profit (CP) - As Submitted</b>			10% / 8% of G.1	-
<b>I.2 Value Added Tax (VAT) - As Submitted</b>			5% of (G.1 + H.1 + I.1)	178.34
<b>J.1 Value Added Tax (VAT) - As Evaluated</b>			5% of (G.2 + H.2 + I.2)	-
<b>K.1 Total Unit Cost - As Submitted</b>			(G.1 + H.1 + I.1 + J.1)	3,745.19
<b>K.2 Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENGUINDO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

JERARD B. BARRERA  
Engineer II  
DPWH RO9



**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 505(2)a Grouled Riprap, Class "A"

Quantity : 67.00  
Unit of Measurement : cum.  
Output per hour - As Submitted : 1.25  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Laborers	8	1.00	45.16	361.25
<b>A.1</b>				
				0.00
				0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				479.47
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
One Bagger Mixer	1	1.00	172.00	172.00
Water Truck/Pump	1	0.05	2,450.00	122.50
<b>B.1</b>				
				-
				-
				-
				-
Minor Tools (5 % of Labor Cost)				23.97
<b>Sub - Total for B.1 - As Submitted</b>				318.47
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1</b>				797.94
<b>Total (A.1 + B.1) - As Submitted</b>				-
<b>C.2</b>				1.25
<b>Output per hour - As Submitted</b>				1.25
<b>D.2</b>				638.35
<b>Output per hour - As Evaluated</b>				-
<b>E.1</b>				
<b>Direct Unit Cost (C.1 + D.1) - As Submitted</b>				
<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>Materials</b>				
Portland Cement	bag	3.00	286.81	860.42
Fine Aggregates	cum.	0.250	943.80	235.95
Gravel Fill	cum.	0.015	827.80	12.42
50mm. (2") PVC Pipe	m.	0.30	106.33	31.90
Filler Cloth	sq.m.	0.015	160.00	2.40
Boulders	cum.	1.05	1,101.80	1,156.89
Misc. (1% of Materials Cost)				23.00
<b>Sub - Total for F.1 - As Submitted</b>				2,322.97
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				2,361.33
<b>G.1</b>				-
<b>Direct Unit Cost (E.1 + F.1) - As Submitted</b>				296.13
<b>G.2</b>				-
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.1		238.91
<b>H.1</b>				-
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.2		174.72
<b>I.1</b>				-
<b>Contractor's Profit (CP) - As Submitted</b>		10% / 8% of G.1		-
<b>I.2</b>				-
<b>Contractor's Profit (CP) - As Evaluated</b>		10% / 8% of G.2		-
<b>J.1</b>				-
<b>Value Added Tax (VAT) - As Submitted</b>		5% of (G.1 + H.1 + I.1)		-
<b>J.2</b>				-
<b>Value Added Tax (VAT) - As Evaluated</b>		5% of (G.2 + H.2 + I.2)		-
<b>K.1</b>				-
<b>Total Unit Cost - As Submitted</b>		(G.1 + H.1 + I.1 + J.1)		3,669.08
<b>K.2</b>				-
<b>Total Unit Cost - As Evaluated</b>		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENEGUJO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

GERALD B. BAKRYNA  
Engineer II  
DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./ Description : 506(1) Stone Masonry

Quantity : 151.00  
Unit of Measurement : cum.  
Output per hour - As Submitted : 1.60  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Laborers	8	1.00	45.16	361.25
<b>A.1</b>				
				0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				479.47
<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 Hours</b>	<b>Hourly Rate</b>	<b>Amount (Php)</b>
<b>Equipment</b>				
One Bagger Mixer	1	1.00	172.00	172.00
Water Truck/Pump	1	0.05	2,450.00	122.50
Backhoe	1	0.10	1,537.00	153.70
<b>B.1</b>				
				-
				-
				-
<b>Minor Tools (10 % of Labor Cost)</b>				47.95
<b>Sub - Total for B.1 - As Submitted</b>				496.15
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1</b>				975.62
<b>Total (A.1 + B.1) - As Submitted</b>				-
<b>C.2</b>				1.60
<b>Output per hour - As Submitted</b>				1.60
<b>D.2</b>				
<b>Output per hour - As Evaluated</b>				609.76
<b>E.1</b>				
<b>Direct Unit Cost (C.1 + D.1) - As Submitted</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>Materials</b>				
Portland Cement	bag	5.50	266.81	1,577.43
Fine Aggregates	cum.	0.300	943.80	283.14
Gravel Fill	cum.	0.020	827.80	16.56
50mm. (2") PVC Pipe	m.	0.30	106.33	31.90
Filter Cloth	sq.m.	0.015	160.00	2.40
Boulders	cum.	1.05	1,101.80	1,156.89
Misc. (1% of Materials Cost)				30.68
<b>Sub - Total for F.1 - As Submitted</b>				3,099.00
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1</b>				3,706.76
<b>Direct Unit Cost (E.1 + F.1) - As Submitted</b>				-
<b>G.2</b>				370.88
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>				-
<b>H.1</b>				
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>		15% / 12% / 10% / 8% of G.1		296.70
<b>I.1</b>				-
<b>Contractor's Profit (CP) - As Submitted</b>		10% / 8% of G.2		216.82
<b>J.1</b>				-
<b>Value Added Tax (VAT) - As Submitted</b>		5% of (G.1 + H.1 + I.1)		-
<b>J.2</b>				4,595.15
<b>Value Added Tax (VAT) - As Evaluated</b>		5% of (G.2 + H.2 + I.2)		-
<b>K.1</b>				
<b>Total Unit Cost - As Submitted</b>		(G.1 + H.1 + I.1 + J.1)		-
<b>K.2</b>				
<b>Total Unit Cost - As Evaluated</b>		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENGILLO  
Engineer II  
DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA  
Engineer II  
DPWH RO9

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./Description : 611(1) Trees, Furnishing & Transplanting

Quantity : 391.00  
Unit of Measurement : each  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>A.1</b>				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	1	1.00	58.61	58.61
Laborers	2	1.00	45.16	90.31
				0.00
Sub - Total for A.1 - As Submitted				230.87
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>B.1</b>				
Equipment				
Cargo Truck	1	1.00	783.00	783.00
Backhoe	1	1.00	1,537.00	1,537.00
Water Truck/pump	1	0.50	2,450.00	1,225.00
				-
Minor Tools (10 % of Labor)				23.09
Sub - Total for B.1 - As Submitted				3,568.09
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				
Total (A.1 + B.1) - As Submitted				3,798.96
<b>C.2</b>				
Total (A.2 + B.2) - As Evaluated				-
<b>D.1</b>				
Output per hour - As Submitted				1.00
<b>D.2</b>				
Output per hour - As Evaluated				3,798.96
<b>E.1</b>				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
<b>Materials</b>				
Trees	pc.	1,000	31.00	31.00
Fertilizers	kg.	3,000	27.60	82.80
Bamboo Pole	pc.	3,000	8.00	24.00
Polythylene Sheets	sq.m.	3,000	40.00	120.00
Tie Wire	kg.	0.250	68.00	17.00
				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				274.80
<b>Materials</b>				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				4,073.76
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
<b>G.2</b>				
Direct Unit Cost (E.2 + F.2) - As Evaluated				407.38
<b>H.1</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	-
<b>H.2</b>				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	-
<b>I.1</b>				
Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	325.90
<b>I.2</b>				
Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
<b>J.1</b>				
Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	240.35
<b>J.2</b>				
Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
<b>K.1</b>				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	5,043.39
<b>K.2</b>				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

Engineer/J  
DPWH RO9  
DPWH-RO9

Checked/Reviewed by:

JERARD B. BARRERA  
DPWH RO9  
DPWH-RO9



**ROAD WIDENING - PRIMARY ROADS DIPOLONG - OROQUIETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 612(1) Reflectized Pavement Markings, White

Quantity : 1,346.50  
Unit of Measurement : sq.m.  
Output per hour - As Submitted : 25.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Laborers	6	1.00	45.16	270.94
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				389.16
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</b>				
<b>Equipment</b>				
Cargo Truck	1	1.00	1,212.00	1,212.00
Applicator Machine	1	1.00	93.75	93.75
Kneading Machine	1	1.00	187.50	187.50
				-
Minor Tools (10 % of Labor)				38.92
<b>Sub - Total for B.1 - As Submitted</b>				1,532.17
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				1,921.32
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				-
<b>D.1 Output per hour - As Submitted</b>				25.00
<b>D.2 Output per hour - As Evaluated</b>				25.00
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				76.85
<b>E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				-
<b>Materials</b>				
Thermoplastic Paint White	bag	0.325	1,585.00	515.13
Glass Beads	bag	0.033	2,500.00	82.50
Primer	l.	0.120	200.00	24.00
LP Gas (50 kg)	cyl	0.004	4,500.00	18.00
LP Gas (12 kg)	cyl	0.002	1,080.00	2.16
Calsunite	kg.	0.125	30.00	3.75
				-
Misc. (5% of Materials Cost)				32.28
				-
<b>Sub - Total for F.1 - As Submitted</b>				684.03
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				760.88
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				-
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>			15% / 12% / 10% / 8% of G.1	76.09
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>			15% / 12% / 10% / 8% of G.2	-
<b>I.1 Contractor's Profit (CP) - As Submitted</b>			10% / 8% of G.1	60.87
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>			10% / 8% of G.2	-
<b>J.1 Value Added Tax (VAT) - As Submitted</b>			5% of (G.1 + H.1 + I.1)	44.89
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>			5% of (G.2 + H.2 + I.2)	-
<b>K.1 Total Unit Cost - As Submitted</b>			(G.1 + H.1 + I.1 + J.1)	942.73
<b>K.2 Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENAQUILLO  
Engineer II  
DPWH RD9

Checked/Reviewed by:

JERRALDO B. BARKERA  
Engineer II  
DPWH RD9

### DETAILED UNIT PRICE ANALYSIS (DUPA)

622(1)a Coco-net

2,238.  
sq.m.  
50.00

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
	Labor				0.00
A.1	Const. Foreman	1	1.00	80.95	80.95
	Laborers	8	1.00	45.16	361.25
					0.00
	Sub - Total for A.1 - As Submitted				443.20
	Labor				
A.2					
	Sub - Total for A.2 - As Evaluated				
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	Equipment				
B.1	Water Truck	1	0.25	2,450.00	612.50
					-
					-
					-
					-
	Minor Tools (10 % of Labor)				44.32
	Sub - Total for B.1 - As Submitted				656.82
	Equipment				
B.2					
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				1,100.02
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				50.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				22.00
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				-
					-
	Erosion Control Net (CGN 400 w/ 5% wastage (Price includes bamboo pegs)	sq.m.	1,050	100.00	105.00
					-
					-
F.1					-
					-
					-
					-
					-
					-
					-
					-
	Sub - Total for F.1 - As Submitted				105.00
	Materials				-
F.2					-
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				127.00
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		12.70
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
I.1	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		10.16
I.2	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		7.49
J.2	Value Added Tax (VAT) - 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)		157.35
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

Engineer II  
DPWH RO9

Checked/Reviewed by

**Engineer III**  
**DPWH ROS**

**ROAD WIDENING - PRIMARY ROADS DIPOLOG - OROQUETA NATIONAL ROAD ZAMBOANGA DEL NORTE, 3RD DEO**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./Description : 622(I)b Coco-net

Quantity : 16,529.00  
 Unit of Measurement : sq.m.  
 Output per hour - As Submitted : 50.00  
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
<b>Labor</b>				0.00
Const. Foreman	1	1.00	80.95	80.95
Laborers	8	1.00	45.16	361.25
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				443.20
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</b>				
<b>Equipment</b>	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
Water Truck	1	0.25	2,450.00	612.50
				-
				-
<b>B.1</b>				
Minor Tools (10 % of Labor)				44.32
<b>Sub - Total for B.1 - As Submitted</b>				656.82
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1</b>				1,100.02
<b>C.2</b>				-
<b>D.1</b>				50.00
<b>D.2</b>				50.00
<b>E.1</b>				22.00
<b>E.2</b>				-
<b>Name and Specification</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount (PHP)</b>
<b>Materials</b>				-
Erosion Control Net CGN 700 w/ 5% wastage	sq.m.	1,050	119.00	124.95
(Price includes bamboo pegs)				-
<b>F.1</b>				-
				-
				-
				-
				-
<b>Sub - Total for F.1 - As Submitted</b>				124.95
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				146.95
<b>G.1</b>				-
<b>G.2</b>				14.70
<b>H.1</b>				-
<b>H.2</b>				11.76
<b>I.1</b>				-
<b>I.2</b>				8.67
<b>J.1</b>				-
<b>J.2</b>				182.07
<b>K.1</b>				-
<b>K.2</b>				-

Prepared by:

JOSEPHINE B. RENESCUJO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

JEKALD B. BARRERA  
 Engineer II  
 DPWH RO9



### DETAILED UNIT PRICE ANALYSIS (DUPA)

Coco-logs/Fascine 622(2)b

3,159.62  
ln.m.  
15.00

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				0.00
	Const. Foremen	1	1.00	80.95	80.95
	Laborers	8	1.00	45.16	361.25
					0.00
	Sub - Total for A.1 - As Submitted				443.20
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	Equipment				
					-
					-
					-
					-
	Minor Tools (10 % of Labor)				44.32
B.2	Sub - Total for B.1 - As Submitted				44.32
	Equipment				
C.1	Sub - Total for B.2 - As Evaluated				487.52
C.1	Total (A.1 + B.1) - As Submitted				-
C.2	Total (A.2 + B.2) - As Evaluated				15.00
D.1	Output per hour - As Submitted				15.00
D.2	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				32.50
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				-
					-
	Erosion Coco Fiber Roll(CGR 200)	In.m.	1,050	410.00	430.50
	(Price includes nylon ropes and stakes)				-
					-
					-
					-
					-
					-
					-
					-
					-
					-
F.2	Sub - Total for F.1 - As Submitted				434.81
	Materials				
	Sub - Total for F.2 - As Evaluated				467.31
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submited			15% / 12% / 10% / 8% of G.1	46.73
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	-
I.1	Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	37.38
J.1	Value Added Tax (VAT) - As Evaluated			5% of (G.1 + H.1 + I.1)	-
J.2	Value Added Tax (VAT) - As Submitted			5% of (G.2 + H.2 + J.2)	27.57
K.1	Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	578.99
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

**Checked/Reviewed by:** [Signature]

Engineer / I  
DPWH RO9

Engineer II  
DPWH RDO

### DETAILED UNIT PRICE ANALYSIS (DUPA)

622(3)a Vegetation

Quantity	:	18,767.00
Unit of Measurement	:	ln.m.
Output per hour - As Submitted	:	62.50
Output per hour - As Evaluated	:	

Designation				No. of Persons	No of Hours	Hourly Rate	Amount (PHP)
Labor							
							0.00
Const. Foreman				1	1.00	80.95	80.95
Laborers				2	1.00	45.16	90.31
							0.00
Sub - Total for A.1 - As Submitted							172.26
Labor							
Sub - Total for A.2 - As Evaluated							
Name and Capacity				No. of Units	No of Hours	Hourly Rate	Amount (Php)
Equipment							
Hydroseeding Machine				1	1.00	952.00	952.00
Water Truck				1	1.00	2,450.00	2,450.00
(including maintenance time)							-
							-
Minor Tools (10 % of Labor)							17.23
Sub - Total for B.1 - As Submitted							3,419.23
Equipment							
Sub - Total for B.2 - As Evaluated							
Total (A.1 + B.1) - As Submitted							3,591.49
Total (A.2 + B.2) - As Evaluated							-
Output per hour - As Submitted							62.50
Output per hour - As Evaluated							62.50
Direct Unit Cost (C.1 + D.1) - As Submitted							57.46
Direct Unit Cost (C.2 + D.2) - As Evaluated							-
Name and Specification				Unit	Quantity	Unit Cost	Amount (PHP)
Materials							-
							-
Grass Cover				sq.m.	1,050	50.00	52.50
(Price includes grass seeds,mulch,cocopeat & binding agent for hydroseeding)							-
							-
							-
							-
							-
							-
							-
							-
Sub - Total for F.1 - As Submitted							52.50
Materials							
Sub - Total for F.2 - As Evaluated							
Direct Unit Cost (E.1 + F.1) - As Submitted							109.96
Direct Unit Cost (E.2 + F.2) - As Evaluated							-
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted					15% / 12% / 10% / 8% of G.1		11.00
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated					15% / 12% / 10% / 8% of G.2		-
Contractor's Profit (CP) - As Submitted					10% / 8% of G.1		8.80
Contractor's Profit (CP) - As Evaluated					10% / 8% of G.2		-
Value Added Tax (VAT) - As Submitted					5% of (G.1 + H.1 + I.1)		6.49
Value Added Tax (VAT) - As Evaluated					5% of (G.2 + H.2 + I.2)		-
Total Unit Cost - As Submitted					(G.1 + H.1 + I.1 + J.1)		136.25
Total Unit Cost - As Evaluated					(G.2 + H.2 + I.2 + J.2)		-

Engineer II  
DPWH RO9

**Engineer II**  
**DPWH RO9**

## 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/m <sup>3</sup>
Unit weight of Coarse Aggregates	: 1,534.00 kg/m <sup>3</sup>
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	
Loaded running	$= \frac{5.00}{30.00} \times 60$	= 10.00	mins.
Unloaded running	$= \frac{5.00}{40.00} \times 60$	= 7.50	mins.
Loading and Unloading	: 5.00	mins.	
Capacity of Dumptruck	: 10.00	cu.m.	
Total Cycle time	: 22.50	mins.	
No. of trips for Dumptruck per day	$= \frac{8 \times 60.00}{22.50}$	= 21.33 say 21.33	trips
Dumptruck daily output	= 10 x 21.33	= 213.33	cu.m.
Using ( 4 ) Dumptrucks	= 4 x 213.33	= 853.33	cu.m.
1. No. of days for Dumptrucks	$= \frac{1,000.00}{853.33}$	= 1.17 say 1.17	days

#### EQUIPMENT USED : (2009 ACEL RATES)

4 - Unit Dumptruck	@ P	11,360.00 /day	x	1.17 days	= P	53,250.00
Estimated Quantity		1,000.00 cu.m.				
<b>Unit Cost</b>	<b>P</b>	<b>10.65 / cu. m./km.</b>	<b>(Unit Cost, Hauling per cu.m.per km.)</b>			
Grand Total	P	53,250.00				
Equipment	P	53,250.00				
Labor	P					
Materials	P					
			<b>Sub - Total</b>		<b>P</b>	<b>53,250.00</b>



# ZAMBOANGA DEL NORTE 1ST DEO

	Ave. Hauling Distance	Unit Cost per cum./km.	Hauling Cost per cum.	Unit Price	Unit Cost per cum.
<b>Cost of Fine Aggregates:</b>	12.00	X 10.65 =	127.80 +	816.00 =	<b>943.80</b>
<b>Cost of Coarse Aggregates:</b>	12.00	X 10.65 =	127.80 +	700.00 =	<b>827.80</b>
<b>Cost of Item 200 Materials:</b>	12.00	X 10.65 =	127.80 +	600.00 =	<b>727.80</b>
<b>Cost of Item 201 Materials:</b>	12.00	X 10.65 =	127.80 +	650.00 =	<b>777.80</b>
<b>Cost of Item 300 Materials:</b>	12.00	X 10.65 =	127.80 +	775.00 =	<b>902.80</b>
<b>Cost of Boulders:</b>	12.00	X 10.65 =	127.80 +	974.00 =	<b>1,101.80</b>
<b>Cost of Embankmen, Common Borrow:</b>	12.00	X 10.65 =	127.80 +	400.00 =	<b>527.80</b>
<b>Cost of Embankmen, Selected Borrow:</b>	12.00	X 10.65 =	127.80 +	500.00 =	<b>627.80</b>

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (Bags)
Portland Cement Concrete Pavementl, 0.28 m. thick	67,263.00
Reinforced Concrete Culvert Pipe, 910 mm. (36") diameter	133.00
Structural Concrete, Class"A"	8,821.00
Reinf. Conc. Culvert Pipe, 910mm dia.	133.00
Grouted Riprap, Class "A"	99.00
Stone Masonry	1,661.00
T O T A L	78,110.00

Quantity = 78,110.00 Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga del Norte 3rd DEO	12.00
PROJECT SITE	

\*Average hauling distance from Source to assumed Stockpiling area :

say 12.00 km.

Delivery Charge = P 0.120 X 12.00  
= P 1.44 / bag

\*Delivery Truck : 78,110.00 bags., (hauling works)  
20,000.00 kgs., (capacity per haul)  
or 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.

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

Speed when loaded : 30.00 kph  
Speed when unloaded : 40.00 kph  
Loaded running =  $\frac{12.00 \times 60}{30.00}$  = 24.00 mins.

$$\text{Unloaded running} = \frac{12.00 \times 60}{40.00} = 18.00 \text{ mins.}$$

Loading and Unloading : 45.00 mins.

Capacity of Dumptruck : 8.00 cum.

: 500.00 bags

Total Cycle time : 87.00 mins.

$$\text{No. of trips for Dumptruck per day} = \frac{8.0 \times 60.00}{87.00} = 5.52 \text{ say } 5.52 \text{ trip}$$

$$\text{Dumptruck daily output} = 500 \times 5.52 = 2,758.62 \text{ cu.m.}$$

$$\text{Using ( 4 ) Dumptrucks} = 4 \times 2,758.62 = 11,034.48 \text{ cu.m.}$$

$$1. \text{ No. of days for Delivery Truck} = \frac{78,110.00}{11,034.48} = 7.08 \text{ say } 7.08 \text{ days}$$

$$2. \text{ No. of days for Labor, for unloading} = \text{complimentary to D. Truck days} = 7.08 \text{ days}$$

#### DELIVERY COST :

78,110.00 - Bags, Portland Cement	@ P	1.44	/ bag	= P	112,478.40
<b>Sub - Total</b>				<b>P</b>	<b>112,478.40</b>

#### LABOR :

1 - Foreman	@ P	611.92 /day	x	7.08 days = P	4,331.61
10 - Laborers, unloading	@ P	342.24 /day	x	7.08 days = P	24,226.21
<b>Sub - Total</b>				<b>P</b>	<b>28,557.82</b>

#### MATERIALS :

78,110.00 - Bags, Portland Cement	@ P	285.00	/ bag	= P	22,261,350.00
<b>Sub - Total</b>				<b>P</b>	<b>22,261,350.00</b>

Estimated Quantity	78,110.00 Bags
Unit Cost	P 286.81 / Bag, say P 286.81 / Bag
Grand Total	P 22,402,386.22
Delivery Cost	P 112,478.40
Labor	P 28,557.82
Materials	P 22,261,350.00