



DPWH REGIONAL OFFICE IX

Data change

40

PROGRAM OF WORKS/BUDGET COST

Project : ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD  
ZAMBOANGA DEL NORTE

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

Location : ZAMBOANGA DEL NORTE

Station Limits : K1801 + 599.00 TO K 1805 + 000.00

Appropriation : Php 102,000,000.00

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

Net Length : (a) Road 3,401.00 In.m. = 6.802  
(b) Bridge  
(c) Others

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

Total Project Duration : 320 CD

No. of Pre-determined : 64 CD

Unworkable Days : 32 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			1.58	1,124,942.00		
B: Other General Requirements			1.30	925,550.61		
C: Earthworks			1.58	1,127,109.16		
D: Subbase and Base Course			20.25	14,452,204.95		
E: Surface Courses			60.89	43,457,630.87		
F: Bridge Construction			10.38	7,408,671.03		
G: Drainage and Slope Protection Structures			1.26	900,485.31		
H: Miscellaneous Structures			2.76	1,969,709.64		
Total			100.00	71,366,303.58		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	2,066,498.52	
2. Materials	58,938,175.58	
3. Rental of Equipment	10,361,629.48	
4. Provisional Sum / Daywork		
5. OCM and Profit	12,627,192.90	
6. Value Added Tax	4,199,674.82	
7. EAO, %	3,086,761.00	
8. RROW Acquisition	10,000,000.00	
9. Physical Reserved (Contingency)	720,067.70	
10. TOTAL ESTIMATED COST	102,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	71,366,303.58	
B. OCM and Profit	12,627,192.90	
C. Value Added Tax	4,199,674.82	
D. Total Construction Cost	88,193,171.31	
E. Eng'g & Administrative Overhead, %	3,086,761.00	
F. RROW Acquisition	10,000,000.00	
G. Physical Reserved (Contingency)	720,067.70	
H. TOTAL ESTIMATED COST	102,000,000.00	

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:

KHADAFY D. TANGGOL  
OIC-Assistant Regional Director  
DPWH RO9

Approved:

CAYAMOMBAO D. DIA  
Regional Director  
DPWH RO9



DPWH REGIONAL OFFICE IX

ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE  
ZAMBOANGA DEL NORTE

APPROVED BUDGET FOR THE CONTRACT

Contract Duration : 320

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	1,124,942.00		103,240.54	61,409.13	164,649.66	1,289,591.67	
PART B	OTHER GENERAL REQUIREMENTS	AS EVALUATED							
		AS SUBMITTED	925,550.61		47,106.39	48,632.85	95,739.24	1,021,289.86	
PART C	EARTHWORKS	AS EVALUATED							
		AS SUBMITTED	1,127,109.16		202,879.65	66,499.44	269,379.09	1,396,488.25	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED							
		AS SUBMITTED	14,452,204.95		2,601,396.89	852,680.09	3,454,076.98	17,906,281.93	
PART E	SURFACE COURSE	AS EVALUATED							
		AS SUBMITTED	43,457,630.87		7,822,373.56	2,564,000.22	10,386,373.78	53,844,004.64	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED							
		AS SUBMITTED	7,408,671.03		1,333,560.79	437,111.59	1,770,672.38	9,179,343.41	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED							
		AS SUBMITTED	900,485.31		162,087.36	53,128.63	215,215.99	1,115,701.30	
PART H	MISCELLANEOUS STRUCTURES	AS EVALUATED							
		AS SUBMITTED	1,969,709.64		354,547.74	116,212.87	470,760.60	2,440,470.24	
TOTAL		AS EVALUATED							
		AS SUBMITTED	71,366,303.58		12,627,192.90	4,199,674.82	16,826,867.73	88,193,171.31	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUINO  
Engineer I  
DPWH RO9

Checked/Submitted by:

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

Evaluation:

Reviewed as to Unit Cost:

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

Approval:

Recommending Approval:

KHADAFFY D. TUNGGOL  
OIC-Assistant Regional Director  
DPWH RO9

Approved:

CAYAMBABO D. DIA  
Regional Director  
DPWH RO9





DPWH REGIONAL OFFICE IX

ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE

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.	481,745.20	18%	86,714.14	28,422.97	115,137.10	596,882.31	596,882.31
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	234,261.72
A.1.2	Operation and Maintenance of Gov't Service Vehicle	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	436,616.80	0%	-	21,830.84	21,830.84	458,447.64	458,447.64
	<b>TOTAL OF PART A</b>	AS EVALUATED									
		AS SUBMITTED			<b>1,124,942.00</b>		<b>103,240.54</b>	<b>61,409.13</b>	<b>164,649.66</b>	<b>1,289,591.67</b>	
<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	3.40	km.	97,326.00	18%	17,518.68	5,742.23	23,260.92	120,586.92	35,456.31
B.7	Occupational Safety and Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	202,120.00	8%	16,169.60	10,914.48	27,084.08	229,204.08	229,204.08
B.8(2)	Traffic Management	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	134,922.56	8%	10,793.80	7,285.82	18,079.62	153,002.18	153,002.18
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			<b>925,550.61</b>		<b>47,106.39</b>	<b>48,632.85</b>	<b>95,739.24</b>	<b>1,021,289.86</b>	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUJO

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. TORREFRANSA

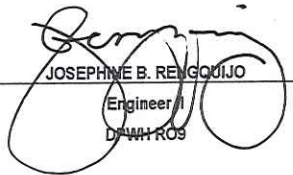
QC-Chief, Planning & Design Division

DPWH RO9

PART C	EARTHWORKS										
100(3)a2	Individual Removal of Trees	AS EVALUATED									
		AS SUBMITTED	168.00	each	269,360.49	18%	48,484.89	15,892.27	64,377.16	333,737.64	1,986.53
103(1)a	Structure Excavation	AS EVALUATED									
		AS SUBMITTED	1,617.00	cu.m.	371,634.64	18%	66,894.24	21,926.44	88,820.68	460,455.32	284.76
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	14.50	cu. m.	18,452.51	18%	3,321.45	1,088.70	4,410.15	22,862.65	1,576.73
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	22.50	cu.m.	5,171.17	18%	930.81	305.10	1,235.91	6,407.08	284.76
105(1)a	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	28,883.00	sq.m.	462,490.36	18%	83,248.27	27,286.93	110,535.20	573,025.56	19.84
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			1,127,109.16		202,879.65	66,499.44	269,379.09	1,396,488.25	
PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED									
		AS SUBMITTED	12,529.00	cu. m.	14,452,204.95	18%	2,601,396.89	852,680.09	3,454,076.98	17,906,281.93	1,429.19
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED			14,452,204.95		2,601,396.89	852,680.09	3,454,076.98	17,906,281.93	

Preparation and Submission:

Prepared by:

  
 JOSEPHINE B. REMIGUIJO  
 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



<b>PART E</b>	<b>SURFACE COURSES</b>										
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	AS EVALUATED									
		AS SUBMITTED	10,203.00	sq. m.	8,614,455.09	18%	1,550,601.92	508,252.85	2,058,854.77	10,673,309.85	1,046.10
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	AS EVALUATED									
		AS SUBMITTED	22,786.50	sq. m.	34,843,175.78	18%	6,271,771.64	2,055,747.37	8,327,519.01	43,170,694.79	1,894.57
	<b>TOTAL OF PART E</b>	AS EVALUATED									
		AS SUBMITTED			43,457,630.87		7,822,373.56	2,564,000.22	10,386,373.78	53,844,004.64	
<b>PART F</b>	<b>BRIDGE CONSTRUCTION</b>										
404(1)a	Reinforcing Steel, (Grade 40)	AS EVALUATED									
		AS SUBMITTED	31,969.00	kg.	1,609,740.39	18%	289,753.27	94,974.68	384,727.95	1,994,468.34	62.39
404(1b)	Reinforcing Steel Bar, (Grade 60)	AS EVALUATED									
		AS SUBMITTED	5,194.00	kg.	272,441.75	18%	49,039.51	16,074.06	65,113.58	337,555.33	64.99
405(1)a3	Structural Concrete, Class "A"	AS EVALUATED									
		AS SUBMITTED	847.50	cu.m.	5,453,458.39	18%	981,622.51	321,754.04	1,303,376.55	6,756,834.94	7,972.67
407(8)	Concrete Structure (Lean Concrete)	AS EVALUATED									
		AS SUBMITTED	15.50	cu.m.	73,030.51	18%	13,145.49	4,308.80	17,454.29	90,484.81	5,837.73
	<b>TOTAL OF PART F</b>	AS EVALUATED									
		AS SUBMITTED			7,408,671.03		1,333,560.79	437,111.59	1,770,672.38	9,179,343.41	
<b>PART G</b>	<b>DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>										
500(1)b3	Pipe Culvert & Storm Drain, 910 mm dia.	AS EVALUATED									
		AS SUBMITTED	112.00	ln. m.	342,899.50	18%	61,721.91	20,231.07	81,952.98	424,852.48	3,793.33
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	40.00	cu. m.	128,931.23	18%	23,207.62	7,606.94	30,814.56	159,745.79	3,993.64
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	107.50	cu. m.	428,654.58	18%	77,157.82	25,290.62	102,448.44	531,103.02	4,940.49
	<b>TOTAL OF PART G</b>	AS EVALUATED									
		AS SUBMITTED			900,485.31		162,087.36	53,128.63	215,215.99	1,115,701.30	
<b>PART H</b>	<b>MISCELLANEOUS STRUCTURES</b>										
611(1)	Trees, Furnishing & Transplanting	AS EVALUATED									
		AS SUBMITTED	293.00	each	1,193,612.01	18%	214,850.16	70,423.11	285,273.27	1,478,885.28	5,047.39
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED									
		AS SUBMITTED	1,020.00	sq.m.	776,097.63	18%	139,697.57	45,789.76	185,487.33	961,584.96	942.73
	<b>TOTAL OF PART H</b>	AS EVALUATED									
		AS SUBMITTED			1,969,709.64		354,547.74	116,212.87	470,760.60	2,440,470.24	
	<b>GRAND TOTAL</b>	AS EVALUATED									
		AS SUBMITTED			71,366,303.58		12,627,192.90	4,199,674.82	16,826,867.73	88,193,171.31	

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

QC-Chief, Planning & Design Division  
DPWH RO9



**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE  
ZAMBOANGA DEL NORTE**

				ITEMIZED BREAKDOWN							
ITEM NO.	DESCRIPTION	QTY		UNIT	DIRECT COST				TOTAL UNIT COST		% DIRECT COST
					TOTAL		UNIT COST		(DIRECT+INDIRECT)		
		AS SUBMITTED	AS EVALUATED		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.	481,745.20		481,745.20		596,882.31		0.675
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		0.289
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	1.00		L.S.	436,616.80		436,616.80		504,292.40		0.612
	TOTAL OF PART A				1,124,942.00						1.576
PART B	OTHER GENERAL REQUIREMENTS										
B.5	Project Billboard/Signboard	4.00		units	14,579.49		3,644.87		4,516.00		0.020
B.4 (1)	Construction Survey and Staking	3.40		km.	97,326.00		28,616.88		35,456.31		0.136
B.7	Occupational Safety and Health Program	1.00		L. S.	202,120.00		202,120.00		250,426.68		0.283
B.8(2)	Traffic Management	1.00		L.S.	134,922.56		134,922.56		167,169.05		0.189
B.9	Mobilization & Demobilization	1.00		L. S.	476,602.56		476,602.56		590,510.57		0.668
	TOTAL OF PART B				925,550.61						1.297
PART C	EARTHWORKS										
100(3)a2	Individual Removal of Trees	168.00		each	269,360.49		1,603.34		1,906.37		0.377
103(1)a	Structure Excavation	1,617.00		cu.m.	371,634.64		229.83		284.76		0.521
103(3)	Foundation Fill	14.50		cu. m.	18,452.51		1,272.59		1,576.73		0.026
103(6)a	Pipe Culvert and Drain Excavation	22.50		cu.m.	5,171.17		229.83		284.76		0.007
105(1)a	Subgrade Preparation	28,883.00		sq.m.	462,490.36		16.01		19.84		0.648
	TOTAL OF PART C				1,127,109.16						1.579



<b>PART D</b>	<b>SUBBASE AND BASE COURSE</b>								
200(1)	Aggregate Subbase Course, 0.30 m. thick	12,529.00	cu. m.	14,452,204.95	1,153.50	1,429.19	20.251		
	<b>TOTAL OF PART D</b>			<b>14,452,204.95</b>			<b>20.251</b>		
<b>PART E</b>	<b>SURFACE COURSES</b>								
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	10,203.00	sq. m.	8,614,455.09	844.31	1,046.10	12.071		
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	22,786.50	sq. m.	34,843,175.78	1,529.11	1,894.57	48.823		
	<b>TOTAL OF PART E</b>			<b>43,457,630.87</b>			<b>60.894</b>		
<b>PART F</b>	<b>BRIDGE CONSTRUCTION</b>								
404(1)a	Reinforcing Steel, (Grade 40)	31,969.00	kg.	1,609,740.39	50.35	62.39	2.256		
404(1)b	Reinforcing Steel Bar, (Grade 60)	5,194.00	kg.	272,441.75	52.45	64.99	0.382		
405(1)a3	Structural Concrete, Class "A"	847.50	cu. m.	5,453,458.39	6,434.76	7,972.67	7.642		
407(8)	Concrete Structure (Lean Concrete)	15.50	cu. m.	73,030.51	4,711.65	5,837.73	0.102		
	<b>TOTAL OF PART F</b>			<b>7,408,671.03</b>			<b>10.381</b>		
<b>PART G</b>	<b>DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>								
500(1)b3	Pipe Culvert & Storm Drain, 910 mm dia.	112.00	ln. m.	342,899.50	3,061.60	3,793.33	0.480		
505(2)a	Grouted Riprap, Class "A"	40.00	cu. m.	128,931.23	3,223.28	3,993.64	0.181		
506(1)	Stone Masonry	107.50	cu. m.	428,654.58	3,987.48	4,940.49	0.601		
	<b>TOTAL OF PART G</b>			<b>900,485.31</b>			<b>1.262</b>		
<b>PART H</b>	<b>MISCELLANEOUS STRUCTURES</b>								
611(1)	Trees, Furnishing & Transplanting	293.00	each	1,193,612.01	4,073.76	5,047.39	1.673		
612(1)	Reflectorized Thermoplastic Pavement Marking, White	1,020.00	sq. m.	776,097.63	760.88	942.73	1.087		
	<b>TOTAL OF PART H</b>			<b>1,969,709.64</b>			<b>2.760</b>		
	<b>GRAND TOTAL</b>			<b>71,366,303.58</b>			<b>100.000</b>		



**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE  
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	0.675	1.00		321,242.48	109,329.75	51,172.98	481,745.20	18%	86,714.14	28,422.97	596,882.31
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for theField Office for the Engineers	AS EVALUATED			L. S.								
		AS SUBMITTED	0.289	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	0.612	1.00		267,820.00	168,796.80	-	436,616.80	0%	-	21,830.84	458,447.64
	TOTAL OF PART A	AS EVALUATED											
		AS SUBMITTED	1.576			795,642.48	278,126.55	51,172.98	1,124,942.00		103,240.54	61,409.13	1,289,591.67
PART B	OTHER GENERAL REQUIREMENTS												
B.5	Project Billboard/Signboard	AS EVALUATED			units								
		AS SUBMITTED	0.020	4.00		13,660.00	919.49	-	14,579.49	18%	2,624.31	860.19	18,063.99
B.4 (1)	Construction Survey and Staking	AS EVALUATED			km.								
		AS SUBMITTED	0.136	3.40		20,615.67	67,527.63	9,182.70	97,326.00	18%	17,518.68	5,742.23	120,586.92
B.7	Occupational Safety and Health Program	AS EVALUATED			L. S.								
		AS SUBMITTED	0.283	1.00		49,000.00	153,120.00	-	202,120.00	8%	16,169.60	10,914.48	229,204.08
B.8(2)	Traffic Management	AS EVALUATED			L.S.								
		AS SUBMITTED	0.189	1.00		-	57,800.00	77,122.56	134,922.56	8%	10,793.80	7,285.82	153,002.18
B.9	Mobilization & Demobilization	AS EVALUATED			L. S.								
		AS SUBMITTED	0.668	1.00		-	-	476,602.56	476,602.56	0%	-	23,830.13	500,432.69
	TOTAL OF PART B	AS EVALUATED											
		AS SUBMITTED	1.297			83,275.67	279,367.12	562,907.82	925,550.61		47,106.39	48,632.85	1,021,289.86
PART C	EARTHWORKS												
100(3)a2	Individual Removal of Trees	AS SUBMITTED	0.377	168.00	each	16,800.00	38,618.79	213,941.70	269,360.49	18%	48,484.89	15,892.27	333,737.64
103(1)a	Structure Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	0.521	1,617.00		-	17,578.41	354,056.23	371,634.64	18%	66,694.24	21,926.44	460,455.32
103(3)	Foundation Fill	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.026	14.50		13,665.16	3,045.88	1,741.46	18,452.51	18%	3,321.45	1,088.70	22,862.65
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	0.007	22.50		-	244.60	4,926.57	5,171.17	18%	930.81	305.10	6,407.08
105(1)a	Subgrade Preparation	AS EVALUATED			sq.m.								
		AS SUBMITTED	0.648	28,883.00		-	16,584.98	445,905.38	462,490.36	18%	83,248.27	27,286.93	573,025.56
	TOTAL OF PART C	AS EVALUATED											
		AS SUBMITTED	1.579			30,465.163	76,072.659	1,020,571.343	1,127,109.165		202,879.650	66,499.441	1,396,488.255



PART D		SUBBASE AND BASE COURSE											
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED			cu. m.								
		AS SUBMITTED	20.251	12,529.00		13,248,477.83	43,165.85	1,160,561.27	14,452,204.95	18%	2,601,396.89	852,680.09	17,906,281.93
	TOTAL OF PART D	AS EVALUATED											
		AS SUBMITTED	20.251			13,248,477.83	43,165.85	1,160,561.27	14,452,204.95		2,601,396.89	852,680.09	17,906,281.93
PART E		SURFACE COURSES											
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	AS EVALUATED			sq. m.								
		AS SUBMITTED	12.071	10,203.00		7,388,366.43	81,588.47	1,144,500.19	8,614,455.09	18%	1,550,601.92	508,252.85	10,673,309.85
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	AS EVALUATED			sq. m.								
		AS SUBMITTED	48.823	22,786.50		29,731,951.99	340,119.72	4,771,104.07	34,843,175.78	18%	6,271,771.64	2,055,747.37	43,170,694.79
	TOTAL OF PART E	AS EVALUATED											
		AS SUBMITTED	60.894			37,120,318.42	421,708.19	5,915,604.26	43,457,630.87		7,822,973.56	2,564,000.22	53,844,004.64
PART F		BRIDGE CONSTRUCTION											
404(1)a	Reinforcing Steel, (Grade 40)	AS EVALUATED			kg.								
		AS SUBMITTED	2.256	31,969.00		1,419,903.14	85,156.54	104,680.71	1,609,740.39	18%	289,753.27	94,974.68	1,994,468.34
404(1b)	Reinforcing Steel Bar, (Grade 60)	AS EVALUATED			kg.								
		AS SUBMITTED	0.382	5,194.00		241,598.91	13,835.37	17,007.46	272,441.75	18%	49,039.51	16,074.06	337,555.33
405(1)a3	Structural Concrete, Class "A"	AS EVALUATED			cu. m.								
		AS SUBMITTED	7.642	847.50		4,387,879.08	721,815.75	343,763.56	5,453,458.39	18%	981,622.51	321,754.04	6,756,634.94
407(8)	Concrete Structure (Lean Concrete)	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.102	15.50		60,466.94	6,606.21	5,957.36	73,030.51	18%	13,145.49	4,308.80	80,484.81
	TOTAL OF PART F	AS EVALUATED											
		AS SUBMITTED	10.381			6,109,848.07	827,413.87	471,409.10	7,408,671.03		1,333,560.79	437,111.59	9,178,343.41

PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES												
500(1)b3	Pipe Culvert & Storm Drain, 910 mm dia.	AS EVALUATED			in. m.								
		AS SUBMITTED	0.480	112.00		305,421.57	9,563.21	27,914.72	342,899.50	18%	61,721.91	20,231.07	424,852.48
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.181	40.00		103,397.04	15,343.04	10,191.15	128,931.23	18%	23,207.62	7,606.94	159,745.79
506(1)	Stone Masonry	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.601	107.50		363,105.31	32,214.39	33,334.88	428,654.58	18%	77,157.82	25,290.62	531,103.02
	TOTAL OF PART G	AS EVALUATED											
		AS SUBMITTED	1.262			771,923.91	57,120.64	71,440.75	900,485.31		162,087.36	53,128.63	1,115,701.30
PART H	MISCELLANEOUS STRUCTURES												
611(1)	Trees, Furnishing & Transplanting	AS EVALUATED			each								
		AS SUBMITTED	1.673	293.00		80,516.40	67,646.01	1,045,449.60	1,193,612.01	18%	214,850.16	70,423.11	1,478,865.28
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED			sq. m.								
		AS SUBMITTED	1.087	1,020.00		697,707.64	15,877.63	62,512.36	776,097.63	18%	139,697.57	45,789.76	961,584.96
	TOTAL OF PART H	AS EVALUATED											
		AS SUBMITTED	2.760			778,224.04	83,523.63	1,107,961.96	1,969,709.64		354,547.74	116,212.87	2,440,470.24
	GRAND TOTAL	AS EVALUATED											
		AS SUBMITTED	100.000			58,938,175.58	2,066,498.52	10,361,629.48	71,366,303.58		12,627,192.90	4,199,674.82	88,193,171.31





**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE  
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 - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 3.40  
Unit of Measurement : km.  
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>				
For Fieldwork:				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 Work:</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>Equipment</b>				
<b>B.1</b>				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
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</b>				
<b>Total (A.1 + B.1) - As Submitted</b>				22,555.23
<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>				22,555.23
<b>E.2</b>				
<b>Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				-
<b>Materials</b>				
<b>F.1</b>				
Standard Stake Plan (600 mm x 910 mm pooling)	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>				-
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Submitted</b>				6,061.65
<b>G.1</b>				
<b>Direct Unit Cost (E.1 + F.1) - As Submitted</b>				28,616.88
<b>G.2</b>				
<b>Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				
<b>H.1</b>				
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>			15% / 12% / 10% / 8% of G.1	2,981.69
<b>H.2</b>				
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>			15% / 12% / 10% / 8% of G.2	-
<b>I.1</b>				
<b>Contractor's Profit (CP) - As Submitted</b>			10% / 8% of G.1	2,289.35
<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)	1,698.40
<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)	35,456.31
<b>K.2</b>				
<b>Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENGOLLO

Engineer II  
DPWH ROC

Checked/Reviewed by:

JERALD B. BARRERA

Engineer II  
DPWH ROC

**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./Description : A.1.13) Construction of Field Office for the Engineer (7.00 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	56,265.60
	Laborers	8	120.00	45.16	43,350.00
	Sub - Total for A.1 - As Submitted				109,329.75
A.2	Labor				
	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 Mixer	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				160,502.73
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				160,502.73
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	289.23	63,630.66
	Crushed Gravel	cu.m.	15.00	1,019.50	15,292.50
	Washed Sand	cu.m.	25.00	1,135.50	28,387.50
	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 C/P 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, 1-hole Core Patch 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
	Purflins, C-150mm x 50 x 3mm	kg.	35.00	52.00	1,820.00
	16mm dia. Cross Bracing	kg.	65.00	3,250.00	212,500.00
	16mm dia. Turn Buckle	kg.	30.00	230.00	6,900.00
	12mm thk. 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	60.00	9,000.00
	Welding Rod	kg.	25.00	130.00	3,250.00
	Primer, Zinc Chromate	kg.	5.00	531.00	2,655.00
	Pre-painted G.I. Roofing Shk. 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	ln.m.	2.00	189.00	378.00
	Texscrew 1-1/2"	ln.m.	1,000.00	1.25	1,250.00
	Roof Sealant	pc.	2.00	230.00	460.00
	Rough lumber, Sun dried Tangleule	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	76.00	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

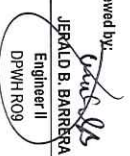


15mm dia. PVC Clamp	pc.	50.00	8.00	400.00
20mm dia. RSC pipe	pc.	4.00	240.00	960.00
20mm dia. RSC Coupling	pc.	3.00	36.00	108.00
20 mm dia. RSC Elbow	pc.	3.00	30.00	90.00
20 mm dia. RSC Clamp	pc.	10.00	18.00	180.00
20mm dia. Service Entrance Cap	pc.	2.00	101.50	203.00
Wire Holder	pc.	2.00	50.00	100.00
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				321,242.48
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted			481,745.20
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		48,174.52
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		38,539.62
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)		28,422.97
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)		596,882.31
K.2	Total Unit Cost - As Evaluated	(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

  
 JOSEPHINE B. RENGOLILLO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

  
 JERALD B. BARRERA  
 Engineer II  
 DPWH RO9

**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPTAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : A.1.1(1) 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)
A.1	Labor				0.00
					0.00
					0.00
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
					-
					-
	Sub - Total for B.1 - As Submitted				-
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				-
C.1	Total (A.1 + B.1) - As Submitted				-
C.2	Total (A.2 + B.2) - As Evaluated				1.00
D.1	Output per hour - As Submitted				
D.2	Output per hour - As Evaluated				1.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				-
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-

	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
<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
	6' Sleeping Bed w/ pillows & blanket	pc.	3.00	5,000.00	15,000.00
	Office Table, Jr. 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(Long)	ream	20.00	350.00	7,000.00
	Bond Paper(short)	ream	15.00	300.00	4,500.00
	P pad paper	pcds	6.00	50.00	300.00
	Scotch Tape	rolls	6.00	45.00	270.00
	Masking 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(1pk, pencil)	box	2.00	120.00	240.00
	Staple Wire	box	6.00	150.00	900.00
	Cutter Blade	box	3.00	200.00	600.00
	Glue	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, 12S	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
	Penite pen(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 & Picochip)	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
Stapler	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
Bedsteets(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				206,580.00
Direct Unit Cost (E.1 + F.1) - As Submitted				
G.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				
H.1		15% / 12% / 10% / 8% of G.1		
H.2		15% / 12% / 10% / 8% of G.2		
I.1		10% / 8% of G.1		16,526.40
Contractor's Profit (CP) - As Submitted		10% / 8% of G.2		
J.1		5% of (G.1 + H.1 + I.1)		11,155.32
J.2		5% of (G.2 + H.2 + J.2)		
K.1		(G.1 + H.1 + I.1 + J.1)		234,261.72
K.2		(G.2 + H.2 + I.2 + J.2)		
Total Unit Cost - As Evaluated				-

Prepared by:

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**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
Sub - Total for A.1 - As Submitted				168,796.80
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>B.1</b>				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Service Vehicle	1	-		-
				-
Sub - Total for B.1 - As Submitted				-
<b>B.2</b>				
Equipment				
Sub - Total for B.2 - As Evaluated				168,796.80
<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				168,796.80
<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>F.1</b>				
Materials	Unit	Quantity	Unit Cost	Amount (Php)
Diesel Fuel	liters	3,200.00	51.00	163,200.00
Engine Oil & Lubricants	L.S.	1.00	24,480.00	24,480.00
Tires	pcs.	5.00	9,500.00	47,500.00
Spare Parts	L.S.	1.00	32,640.00	32,640.00
Sub - Total for F.1 - As Submitted				-
<b>F.2</b>				
Materials				267,820.00
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				436,616.80
<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	43,661.68
<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	24,013.92
<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)	504,292.40
<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)	-

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

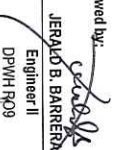
Quantity : 3.46  
Unit of Measurement : km.  
Output per hour - As Submitted : 1.00  
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
<b>Labor</b>				
For Fieldwork:				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>A.1</b>				
For Office Works:				
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>B.1</b>				
Equipment	1	27.00	100.00	2,700.00
Total Station Complete w/ accessories				-
<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</b>				22,555.23
<b>Total (A.1 + B.1) - As Submitted</b>				-
<b>C.2</b>				1.00
<b>Total (A.2 + B.2) - As Evaluated</b>				1.00
<b>D.1</b>				1.00
<b>Output per hour - As Evaluated</b>				22,555.23
<b>D.2</b>				
<b>Direct Unit Cost (C.1 + D.1) - As Submitted</b>				-
<b>E.1</b>				
<b>Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				
<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>				
<b>F.1</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>				28,516.88
<b>G.1</b>				
<b>Direct Unit Cost (E.1 + F.1) - As Submitted</b>				-
<b>G.2</b>				2,861.69
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>			15% / 12% / 10% / 8% of G.1	-
<b>H.1</b>			15% / 12% / 10% / 8% of G.2	-
<b>Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>			10% / 8% of G.1	2,289.35
<b>I.1</b>			10% / 8% of G.2	-
<b>Contractor's Profit (CP) - As Submitted</b>			5% of (G.1 + H.1 + I.1)	1,588.40
<b>I.2</b>			5% of (G.2 + H.2 + I.2)	-
<b>Value Added Tax (VAT) - As Submitted</b>			(G.1 + H.1 + I.1 + J.1)	35,456.31
<b>J.1</b>				-
<b>Value Added Tax (VAT) - As Evaluated</b>				-
<b>J.2</b>				-
<b>Total Unit Cost - As Submitted</b>				-
<b>K.1</b>				-
<b>Total Unit Cost - As Evaluated</b>				-

Prepared by:

  
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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**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>A.1</b>				
Labor				0.00
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
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
Equipment				
<b>B.1</b>				
Equipment				-
Sub - Total for B.1 - As Submitted				-
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				229.87
Total (A.1 + B.1) - As Submitted				
<b>C.2</b>				
Total (A.2 + B.2) - As Evaluated				1.00
<b>D.1</b>				1.00
Output per hour - As Submitted				
<b>D.2</b>				
Output per hour - As Evaluated				229.87
<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>Materials</b>				
Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	435.00	435.00
Tarpaulin (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>				
Sub - Total for F.1 - As Submitted				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				3,644.87
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
<b>G.2</b>				364.49
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	
<b>H.2</b>				15% / 12% / 10% / 8% of G.2
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			10% / 8% of G.1	291.59
<b>I.1</b>				10% / 8% of G.2
Contractor's Profit (CP) - As Submitted			5% of (G.1 + H.1 + I.1)	
<b>I.2</b>				5% of (G.2 + H.2 + I.2)
Contractor's Profit (CP) - As Evaluated			5% of (G.1 + H.1 + I.1)	215.05
<b>J.1</b>				5% of (G.2 + H.2 + I.2)
Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1 + J.1)	
<b>J.2</b>				5% of (G.2 + H.2 + I.2 + J.2)
Value Added Tax (VAT) - As Evaluated				4,516.00
<b>K.1</b>				
Total Unit Cost - As Submitted				-
<b>K.2</b>				
Total Unit Cost - As Evaluated				

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPTAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**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
Solely Practitioner	1	640.00	58.61	37,510.40
First Aider	1	2,560.00	45.16	115,609.60
				0.00
				0.00
Sub - Total for A.1 - As Submitted				153,120.00
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
Equipment	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				153,120.00
<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				153,120.00
<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>F.1</b>				
Materials	Unit	Quantity	Unit Cost	Amount (Php)
Rubber Boots/Men, Long w/ Steel Toe, Black	pc.	30.00	500.00	15,000.00
Working Gloves (Leaving 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				202,120.00
<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				20,212.00
<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	16,169.60
<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	11,925.08
<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)	250,428.68
<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)	-

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**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)
A.1				0.00
Labor				
				0.00
Sub - Total for A.1 - As Submitted				0.00
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Equipment				
Low Bed Trailer	4	28.00	4,255.38	476,602.56
Sub - Total for B.1 - As Submitted				476,602.56
Equipment				
Sub - Total for B.2 - As Evaluated				476,602.56
C.1 Total (A.1 + B.1) - As Submitted				476,602.56
C.2 Total (A.2 + B.2) - As Evaluated				1.00
D.1 Output per hour - As Submitted				1.00
D.2 Output per hour - As Evaluated				476,602.56
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				-
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				-
F.1				-
Sub - Total for F.1 - As Submitted				-
Materials				-
F.2				476,602.56
Sub - Total for F.2 - As Evaluated				476,602.56
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				47,660.28
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		38,128.20
I.1 Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		-
I.2 Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		28,119.55
J.1 Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		-
J.2 Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		599,510.57
K.1 Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		-
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

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ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE  
ZAMBOANGA DEL NORTE  
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 100(3)g2 Individual Removal of Trees

Quantity : 168.00  
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)
A.1	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Skilled laborer	1	1.00	58.61	58.61
	Labors	2	1.00	45.16	90.31
	Sub - Total for A.1 - As Submitted				229.87
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	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
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				1,503.34
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				1,503.34
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Rope, 1" dia. - 5 uses	m.	4.00	25.00	100.00
	Sub - Total for F.1 - As Submitted				100.00
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				1,603.34
G.2	Direct Unit Cost (E.2 + F.2) - As Submitted				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	160.33
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	128.27
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)	14.43
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)	1,906.37
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENGANOUD

Engineer II  
DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA

Engineer II  
DPWH RO9



# DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 1,617.00  
Unit of Measurement : cu.m.  
Output per hour - As Submitted : 20.00  
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Labors	3	1.00	45.16	135.47
	Sub - Total for A.1 - As Submitted				217.42
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	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
B.2	Equipment				
	Sub - Total for B.1 - As Submitted				4,379.17
C.1	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				4,596.59
D.1	Output per hour - As Submitted				20.00
	Output per hour - As Evaluated				229.83
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				-
	Direct Unit Cost (C.2 + D.2) - As Evaluated				
F.1	Materials				
F.2	Sub - Total for F.1 - As Submitted				-
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				229.83
	Direct Unit Cost (E.1 + F.1) - As Submitted				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				22.98
	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1	Contractor's Profit (CP) - As Submitted				18.39
	Contractor's Profit (CP) - As Evaluated				-
J.1	Value Added Tax (VAT) - As Submitted				13.56
	Value Added Tax (VAT) - As Evaluated				-
K.1	Total Unit Cost - As Submitted				284.76
	Total Unit Cost - As Evaluated				-

Prepared by:

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**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 14.50  
 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				
	Const. Foreman	1	1.00	80.95	80.95
	Laborers	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				
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	Equipment				
	Plate Compactor	1	1.00	123.00	123.00
B.1	Water Truck	1	0.01	2,450.00	24.50
	Minor Tools(10 % of Labor)				2.63
					-
	Sub - Total for B.1 - As Submitted				150.13
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				412.70
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				1.25
D.2	Output per hour - As Evaluated				1.25
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				330.16
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Filling Materials	cum.	1.15	819.50	942.43
					-
					-
					-
					-
					-
					-
					-
	Sub - Total for F.1 - As Submitted				942.43
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				1,272.59
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				127.26
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		101.81
I.1	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		-
I.2	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		75.08
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		-
J.2	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		1,576.73
K.1	Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		-
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENQUILLO

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DPWH RO9

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# DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./ Description : 103(6)a Pipe Culvert and Drain Excavation

Quantity : 22.50  
Unit of Measurement : cum.  
Output per hour - As Submitted : 20.00  
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Labors	3	1.00	45.16	135.47
	Sub - Total for A.1 - As Submitted				217.42
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Backhoe	1	1.00	1,537.00	1,537.00
	Dump Truck	2	1.00	1,420.00	2,840.00
	Minor Tools(10 % of Labor)				2.17
	Sub - Total for B.1 - As Submitted				4,379.17
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				4,596.59
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				20.00
D.2	Output per hour - As Evaluated				20.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				229.83
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				-
					-
F.2	Sub - Total for F.1 - As Submitted				-
	Materials				-
					-
G.1	Sub - Total for F.2 - As Evaluated				229.83
G.2	Direct Unit Cost (E.1 + F.1) - As Submitted				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	22.98
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	18.39
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)	13.56
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)	284.76
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

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### DETAILED UNIT PRICE ANALYSIS (DUPA)

105(1)a Subgrade Preparation

Quantity	: 28,833.00
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)
	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Laborers	2	1.00	46.16	90.31
A.1					
					0.00
					0.00
	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				
	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.1					
					-
					-
					-
					-
	Sub - Total for B.1 - As Submitted				4,631.50
	Equipment				
B.2					
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				4,803.76
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				300.00
D.2	Output per hour - As Evaluated				300.00
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				16.01
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				-
F.1					-
					-
					-
					-
					-
	Sub - Total for F.1 - As Submitted				-
	Materials				
F.2					
	Sub - Total for F.2 - As Evaluated				16.01
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				1.60
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	1.28
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)	0.94
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)	19.84
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

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JERALD B. BARRERA

Engineer II  
DPWH/RO9

Engineer II  
DPWH RO9

**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 12,529.00  
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
<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>				96.08
<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>Materials</b>				
Aggregate Subbase Course	cu.m.	1.15	919.50	1,057.43
(w/ 15% shrinkage)				-
				-
				-
				-
<b>Sub - Total for F.1 - As Submitted</b>				1,057.43
<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>				1,153.50
<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	115.35
<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	92.28
<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)	68.06
<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)	1,429.19
<b>K.2 Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

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DPWH RO9

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./ Description : 311(1)e1 Portland Cement Concrete Pavement, 0.28m. Thk.

Quantity : 22,786.50  
 Unit of Measurement : sq.m.  
 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
Sub - Total for A.1 - As Submitted				858.27
<b>A.2</b>				
Sub - Total for A.2 - As Submitted				
<b>B.1</b>				
Equipment				
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
Sub - Total for B.1 - As Submitted				12,039.52
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				12,897.78
<b>C.2</b>				
Total (A.1 + B.1) - As Submitted				
Total (A.2 + B.2) - As Evaluated				
<b>D.1</b>				57.50
Output per hour - As Submitted				
<b>D.2</b>				57.50
Output per hour - As Evaluated				
<b>E.1</b>				224.31
Direct Unit Cost (C.1 + D.1) - As Submitted				
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
<b>F.1</b>				
Materials				
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
Coarse Aggregates	cum.	0.1540	1,135.50	174.87
Portland Cement	bag	0.28	1,019.50	285.46
Concrete Saw (Diamond Blade 14"dia.)	pc.	0.00015	289.23	789.35
Pipe Sleeve, 1" dia.	m	0.00078	8,000.00	1.20
Grease/Tar	L.	0.0078	40.00	0.31
Sub - Total for F.1 - As Submitted				1,304.81
<b>F.2</b>				
Materials				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>				1,529.11
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>				152.91
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>				122.33
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>				90.22
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)	
<b>K.1</b>				1,894.57
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)	

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 Engineer II  
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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
ZAMBOANGA DEL NORTE  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 31,959.00  
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)
Labor				
Const. Foreman	1	1.00	80.95	80.95
A.1 Skilled Laborer	2	1.00	58.61	117.22
Labors	8	1.00	45.16	361.25
Sub - Total for A.1 - As Submitted				479.47
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Bar Cutter	1	1.00	219.75	219.75
Bar Bender	1	1.00	351.50	351.50
B.1 Cargo Truck	1	0.15	121.00	18.15
Sub - Total for B.1 - As Submitted				589.40
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				1,068.87
C.2 Total (A.2 + B.2) - As Evaluated				-
D.1 Output per hour - As Submitted				180.00
D.2 Output per hour - As Evaluated				180.00
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				5.94
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
Tie Wire	kg	0.021	65.00	1.37
Reinforcing Steel Bar/Grade 40	kg	1.05	41.00	43.05
F.1				
Sub - Total for F.1 - As Submitted				44.42
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				50.35
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				5.04
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	4.03
I.1 Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	-
I.2 Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	2.97
J.1 Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	-
J.2 Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	62.39
K.1 Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	-
K.2 Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPTAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No./ Description : 404/1b Reinforcing Steel Bar, (Grade 60)

Quantity : 5,194.00  
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
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>				
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>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1 Total (A.1 + B.1) - As Submitted</b>				<b>1,068.87</b>
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				<b>-</b>
<b>D.1 Output per hour - As Submitted</b>				<b>180.00</b>
<b>D.2 Output per hour - As Evaluated</b>				<b>5.94</b>
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				<b>-</b>
<b>E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				<b>-</b>
<b>Materials</b>				
Tie Wire	kg.	0.021	65.00	1.37
Reinforcing Steel Bar, Grade 60	kg.	1.05	43.00	45.15
<b>Sub - Total for F.1 - As Submitted</b>				<b>46.52</b>
<b>Materials</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				<b>52.45</b>
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				<b>-</b>
<b>G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated</b>				<b>5.25</b>
<b>H.1 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Submitted</b>				<b>-</b>
<b>H.2 Overhead, Contingencies &amp; Miscellaneous (OCM) - As Evaluated</b>				<b>4.20</b>
<b>I.1 Contractor's Profit (CP) - As Submitted</b>				<b>-</b>
<b>I.2 Contractor's Profit (CP) - As Evaluated</b>				<b>3.09</b>
<b>J.1 Value Added Tax (VAT) - As Submitted</b>				<b>-</b>
<b>J.2 Value Added Tax (VAT) - As Evaluated</b>				<b>64.99</b>
<b>K.1 Total Unit Cost - As Submitted</b>				<b>-</b>
<b>K.2 Total Unit Cost - As Evaluated</b>				<b>-</b>

Prepared by:

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 847.50  
Unit of Measurement : cu.m.  
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>				<b>1,192.38</b>
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</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)				59.62
<b>Sub - Total for B.1 - As Submitted</b>				<b>567.87</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>1,760.25</b>
<b>C.2 Total (A.2 + B.2) - As Evaluated</b>				
<b>D.1 Output per hour - As Submitted</b>				<b>1.40</b>
<b>D.2 Output per hour - As Evaluated</b>				
<b>E.1 Direct Unit Cost (C.1 + D.1) - As Submitted</b>				<b>1,257.32</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>				
Lumber	kg.	17.50	36.00	630.00
Marine Plywood	l.	0.40	435.00	174.00
Assorted CNW	l.	0.70	55.00	38.50
Portland Cement	bag	9.50	289.23	2,747.69
Fine Aggregates	cu.m.	0.50	1,135.50	567.75
Coarse Aggregates	cu.m.	1.00	1,019.50	1,019.50
<b>Sub - Total for F.1 - As Submitted</b>				
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				<b>5,177.44</b>
<b>G.1 Direct Unit Cost (E.1 + F.1) - As Submitted</b>				<b>6,434.76</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	643.48
<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	514.78
<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)	379.65
<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)	7,972.67
<b>K.2 Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
ZAMBOANGA DEL NORTE  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 407(8) Concrete Structure (Lean Concrete)

Quantity : 15.50  
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>				
Constl. 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>				
				0.00
				0.00
<b>Sub - Total for A.1 - As Submitted</b>				596.69
<b>Labor</b>				
<b>A.2</b>				
<b>Sub - Total for A.2 - As Evaluated</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 (6% of Labor Cost)				29.83
<b>Sub - Total for B.1 - As Submitted</b>				538.08
<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>				1,134.77
<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>				810.55
<b>E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated</b>				-
<b>Materials</b>				
<b>F.1</b>				
Portland Cement	bag	8.00	289.23	2,313.84
Fine Aggregates	cum.	0.50	1,135.50	567.75
Coarse Aggregates	cum.	1.00	1,019.50	1,019.50
<b>Sub - Total for F.1 - As Submitted</b>				3,901.09
<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>				4,711.65
<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	471.16
<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	376.93
<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)	277.99
<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)	5,837.73
<b>K.2 Total Unit Cost - As Evaluated</b>			(G.2 + H.2 + I.2 + J.2)	-

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 500(1)B3 Pipe Culvert & Storm Drain, 910 mm dia.

Quantity : 112.00  
Unit of Measurement : ltr.m.  
Output per hour - As Submitted : 200  
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	0.57	80.95	46.14
	Skilled Laborers	2	0.57	58.61	66.82
	Laborers	4	0.57	45.16	102.96
					0.00
					0.00
	Sub - Total for A.1 - As Submitted				170.77
	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				
	Backhoe	1	0.29	1,537.00	445.73
	Plate Compactor	1	0.29	123.00	35.67
					-
					-
					-
					-
	Minor Tools (10 % of Labor Cost)				17.08
	Sub - Total for B.1 - As Submitted				498.48
	Equipment				
B.2					
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				669.25
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				334.62
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.1	Materials				
	Portland Cement	bag	1.08	289.23	312.37
	Fine Aggregates	cum.	0.061	1,135.50	69.27
	RC Pipes	pc.	1.00	2,200.00	2,200.00
	Sand Bedding	cum.	0.128	1,135.50	145.34
					-
					-
					-
	Sub - Total for F.1 - As Submitted				2,726.98
	Materials				
F.2					
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				3,061.60
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		306.16
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		244.93
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)		180.63
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)		3,793.33
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 40.00  
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
<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>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>				<b>318.47</b>
<b>Equipment</b>				
<b>B.2</b>				
<b>Sub - Total for B.2 - As Evaluated</b>				
<b>C.1</b>				<b>797.94</b>
<b>Total (A.1 + B.1) - As Submitted</b>				
<b>C.2</b>				<b>1.25</b>
<b>Total (A.2 + B.2) - As Evaluated</b>				
<b>D.1</b>				<b>1.25</b>
<b>Output per hour - As Submitted</b>				
<b>D.2</b>				<b>638.35</b>
<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	289.23	867.69
Fine Aggregates	cum.	0.250	1,135.50	283.88
Gravel Fill	cum.	0.015	1,019.50	15.29
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	1,293.50	1,358.18
Misc. (1% of Materials Cost)				25.59
<b>Sub - Total for F.1 - As Submitted</b>				<b>2,584.93</b>
<b>Materials</b>				
<b>F.2</b>				
<b>Sub - Total for F.2 - As Evaluated</b>				
<b>G.1</b>				<b>3,223.28</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>322.33</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>257.86</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>190.17</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>3,993.64</b>
<b>Total Unit Cost - As Submitted</b>				
<b>K.2</b>				
<b>Total Unit Cost - As Evaluated</b>				

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
ZAMBOANGA DEL NORTE  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 107.50  
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
				0.00
				0.00
Sub - Total for A.1 - As Submitted				479.47
<b>Labor</b>				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<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>				
				-
				-
				-
				-
Minor Tools (10 % of Labor Cost)				47.95
Sub - Total for B.1 - As Submitted				496.15
<b>Equipment</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				
Total (A.1 + B.1) - As Submitted				975.62
<b>C.2</b>				
Total (A.2 + B.2) - As Evaluated				-
<b>D.1</b>				
Output per hour - As Submitted				1.60
<b>D.2</b>				
Output per hour - As Evaluated				1.60
<b>E.1</b>				
Direct Unit Cost (C.1 + D.1) - As Submitted				609.76
<b>E.2</b>				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
<b>Materials</b>				
Portland Cement	bag	5.50	289.23	1,590.77
Fine Aggregates	cu.m.	0.300	1,135.50	340.65
Gravel Fill	cu.m.	0.020	1,019.50	20.39
50mm (2") PVC Pipe	m.	0.30	106.33	31.90
Filter Cloth	sq.m.	0.015	160.00	2.40
Boulders	cu.m.	1.05	1,293.50	1,358.18
Misc. (1% of Materials Cost)				33.44
Sub - Total for F.1 - As Submitted				3,377.72
<b>Materials</b>				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>				
Direct Unit Cost (E.1 + F.1) - As Submitted				3,987.48
<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	398.75
<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	319.00
<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)	235.26
<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)	4,940.49
<b>K.2</b>				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

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**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPITAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
ZAMBOANGA DEL NORTE  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 293.00  
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				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
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>				3,798.96
Total (A.1 + B.1) - As Submitted				-
<b>C.2</b>				1.00
Total (A.2 + B.2) - As Evaluated				1.00
<b>D.1</b>				
Output per hour - As Submitted				
<b>D.2</b>				
Output per hour - As Evaluated				
<b>E.1</b>				3,798.96
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				-
				-
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
Polyethylene 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
Materials				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>				4,073.76
Direct Unit Cost (E.1 + F.1) - As Submitted				-
<b>G.2</b>				407.38
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		-
<b>H.1</b>				-
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
<b>H.2</b>				325.90
Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		-
<b>I.1</b>				-
Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		240.35
<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 + J.2)		5,047.39
<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. PENGOUPO**  
Engineer II  
DPWH RO9  
DPWH RO9

Checked/Reviewed by: **JEFFALD B. BARRERA**  
DPWH RO9  
DPWH RO9

**ROAD WIDENING - SECONDARY ROADS RIZAL - DAKAK - DAPTAN COASTAL LOOP ROAD ZAMBOANGA DEL NORTE**  
**ZAMBOANGA DEL NORTE**  
**DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

Quantity : 1,020.00  
 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>A.1</b>				
Labor				
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
Sub - Total for A.1 - As Submitted				389.16
Labor				
<b>A.2</b>				
Sub - Total for A.2 - As Evaluated				
<b>B.1</b>				
Equipment				
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
Sub - Total for B.1 - As Submitted				1,532.17
Equipment				
<b>B.2</b>				
Sub - Total for B.2 - As Evaluated				
<b>C.1</b>				1,921.32
Total (A.1 + B.1) - As Submitted				
<b>C.2</b>				
Total (A.2 + B.2) - As Evaluated				25.00
<b>D.1</b>				25.00
Output per hour - As Submitted				
<b>D.2</b>				76.85
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				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
<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
LP60 (kg)	cyl	0.004	4,500.00	18.00
LP6 (12 kg)	cyl	0.002	1,080.00	2.16
Catamine	kg.	0.125	30.00	3.75
				-
				-
Misc. (5% of Materials Cost)				32.28
				-
				6.22
Sub - Total for F.1 - As Submitted				684.03
<b>Materials</b>				
<b>F.2</b>				
Sub - Total for F.2 - As Evaluated				
<b>G.1</b>				760.88
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	76.09
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.2	-
<b>H.2</b>			10% / 8% of G.1	60.87
Contractor's Profit (CP) - As Submitted			10% / 8% of G.2	-
<b>I.1</b>			5% of (G.1 + H.1 + I.1)	44.89
Contractor's Profit (CP) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
<b>J.1</b>			(G.1 + H.1 + I.1 + J.1)	942.73
Value Added Tax (VAT) - As Submitted			(G.2 + H.2 + I.2 + J.2)	-
<b>K.1</b>				
Total Unit Cost - As Submitted				
<b>K.2</b>				
Total Unit Cost - As Evaluated				

Prepared by:

JOSEPHINE B. RENGOMUJO  
 Engineer II  
 DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA  
 Engineer II  
 DPWH RO9



9200

Effective Working Hours : 8.00 hrs.

## U.1

to be Carried per DT	:	11.57
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### neeler) days computation : **TIME-MOTION ANALYSIS**

oaded : 30.00 kph

nlodded : 40.00 kph

$$= \frac{5.00 \times 60}{30.00} = 10.00 \text{ mins.}$$
$$= \frac{5.00 \times 60}{40.00} = 7.50 \text{ mins.}$$

Unloading : 5.00 mins.

umpruck	:	10.00	cu.m.
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22.50 mins.

$$\text{Dumptuck} = \frac{8 \times 60.00}{22.50} = 21.33 \text{ say } 21.33 \text{ trips}$$
$$\text{Daily output} = 10 \times 21.33 = 213.33 \text{ cu.m.}$$
$$\text{Dumptrucks} = 4 \times 213.33 = 853.33 \text{ cu.m.}$$
$$\frac{1,000.00}{853.33} = 1.17 \quad \text{say } 1.17 \text{ days}$$

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

$$\text{P} @ 11,360.00 / \text{day} \times 1.17 \text{ days} = \text{P} 53,250.00$$

1,000.00 cu.m.

10.65 / cu. m./km. (Unit Cost, Hauling per cu.m.per km.)

P 53,250.00

P 53,250.00

P

Р

# ZAMBOANGA DEL NORTE 3RD DEO

	Ave. Hauling Distance	Unit Cost per cu.m./km.	Hauling Cost per cu.m.	Unit Price	Unit Cost per cu.m.
<b>Cost of Fine Aggregates:</b>	30.00	x 10.65 =	319.50 +	816.00 =	<b>1,135.50</b>
<b>Cost of Coarse Aggregates:</b>	30.00	x 10.65 =	319.50 +	700.00 =	<b>1,019.50</b>
<b>Cost of Item 200 Materials:</b>	30.00	x 10.65 =	319.50 +	600.00 =	<b>919.50</b>
<b>Cost of Item 201 Materials:</b>	30.00	x 10.65 =	319.50 +	650.00 =	<b>969.50</b>
<b>Cost of Item 300 Materials:</b>	30.00	x 10.65 =	319.50 +	775.00 =	<b>1,094.50</b>
<b>Cost of Boulders:</b>	30.00	x 10.65 =	319.50 +	974.00 =	<b>1,293.50</b>
<b>Cost of Embankmen, Common Borrow:</b>	30.00	x 10.65 =	319.50 +	400.00 =	<b>719.50</b>
<b>Cost of Embankmen, Selected Borrow:</b>	30.00	x 10.65 =	319.50 +	500.00 =	<b>819.50</b>

1  
2  
3

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (Bags)
Portland Cement Concrete Pavement, 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	30.00
PROJECT SITE	

\*Average hauling distance from Source to assumed Stockpiling area :  
say 30.00 km.

Delivery Charge = P 0.120 x 30.00  
= P 3.60 / 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 =  $\frac{30.00 \times 60}{30.00}$  = 60.00 mins.



$$\text{Unloaded running} = \frac{30.00 \times 60}{40.00} = 45.00 \text{ mins.}$$

Loading and Unloading : 45.00 mins.

Capacity of Dumptruck : 8.00 cu.m.

: 500.00 bags

: 150.00 mins.

$$\text{No. of trips for Dumptruck per day} = \frac{8.0 \times 60.00}{150.00} = 3.20 \text{ say } 3.20 \text{ trip}$$

$$\text{Dumptruck daily output} = 500 \times 3.20 = 1,600.00 \text{ cu.m.}$$

$$\text{Using ( 4 ) Dumptrucks} = 4 \times 1600.00 = 6,400.00 \text{ cu.m.}$$

$$1. \text{ No. of days for Delivery Truck} = \frac{78,110.00}{6,400.00} = 12.20 \text{ say } 12.20 \text{ days}$$

$$2. \text{ No. of days for Labor, for unloading} = \text{complimentary to D. Truck days} = 12.20 \text{ days}$$

#### DELIVERY COST :

78,110.00 - Bags, Portland Cement	@ P	3.60	/ bag	= P	281,196.00
<b>Sub - Total</b>				<b>P</b>	<b>281,196.00</b>

#### LABOR :

1 - Foreman	@ P	611.92 /day	x 12.20 days	= P	7,468.29
10 - Laborers, unloading	@ P	342.24 /day	x 12.20 days	= P	41,769.32
<b>Sub - Total</b>				<b>P</b>	<b>49,237.61</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>

(Pick-Up Price)

Estimated Quantity	78,110.00 Bags				
Unit Cost	P	289.23 / Bag,	say	P	289.23 / Bag
Grand Total	P	22,591,783.61			
Delivery Cost	P	281,196.00			
Labor	P	49,237.61			
Materials	P	22,261,350.00			