



DPWH REGIONAL OFFICE IX

For Modification

44

PROGRAM OF WORKS/BUDGET COST

Project : ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR BOUNDARY

Project ID : _____

Location : ZAMBOANGA DEL NORTE

Station Limits : K 1862 + 900.00 - K 1868 + 158.00

Appropriation : Php 150,000,000.00

Source of Fund : _____

Net Length : (a) Road 5,140.00 In.m. = 10.280 I

(b) Bridge _____

(c) Others _____

Target Start Date : _____

Total Project Duration : 353 CD

No. of Pre-determined : 71 CD

Unworkable Days : 27 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			1.06	1,156,206.41		
B: Other General Requirements			0.79	866,183.31		
C: Earthworks			17.20	18,688,922.83		
D: Subbase and Base Course			24.93	27,094,970.31		
E: Surface Courses			54.24	58,943,571.27		
F: Bridge Construction			0.00	-		
G: Drainage and Slope Protection Structures			0.87	940,150.69		
H: Miscellaneous Structures			0.91	986,577.77		
Total			100.00	108,666,582.58		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	1,655,068.63	
2. Materials	78,782,290.67	
3. Rental of Equipment	28,229,223.27	
4. Provisional Sum / Daywork		
5. OCM and Profit	19,349,066.64	
6. Value Added Tax	6,400,782.46	
7. EAO, %	4,704,575.11	
8. RROW Acquisition	10,000,000.00	
9. Physical Reserved (Contingency)	878,993.21	
10. TOTAL ESTIMATED COST	150,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	108,666,582.58	
B. OCM and Profit	19,349,066.64	
C. Value Added Tax	6,400,782.46	
D. Total Construction Cost	134,416,431.68	
E. Eng'g & Administrative Overhead, %	4,704,575.11	
F. RROW Acquisition	10,000,000.00	
G. Physical Reserved (Contingency)	878,993.21	
H. TOTAL ESTIMATED COST	150,000,000.00	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENSQUIJO

Engineer II
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division
DPWH RO9

Approval:

Recommending Approval:

KHADAFFY D. TANGGOL

OIC-Assistant Regional Director
DPWH RO9

Approved:

CAYAMOMBAO D. DIA

OIC-Regional Director
DPWH RO9



DPWH REGIONAL OFFICE IX

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR BOUNDARY

ZAMBOANGA DEL NORTE

APPROVED BUDGET FOR THE CONTRACT

Contract Duration : 353

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	1,156,206.41		104,778.44	63,049.24	167,827.68	1,324,034.09	
PART B	OTHER GENERAL REQUIREMENTS	AS EVALUATED							
		AS SUBMITTED	856,183.31		46,533.48	45,135.84	91,669.32	947,852.63	
PART C	EARTHWORKS	AS EVALUATED							
		AS SUBMITTED	18,688,922.83		3,364,006.11	1,102,646.45	4,466,652.56	23,155,575.39	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED							
		AS SUBMITTED	27,094,970.31		4,877,094.66	1,598,603.25	6,475,697.90	33,570,668.22	
PART E	SURFACE COURSE	AS EVALUATED							
		AS SUBMITTED	58,943,571.27		10,609,842.83	3,477,670.70	14,087,513.53	73,031,084.80	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED							
		AS SUBMITTED	-		-	-	-	-	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED							
		AS SUBMITTED	940,150.69		169,227.12	55,468.89	224,696.01	1,164,846.70	
PART H	MISCELLANEOUS STRUCTURES	AS EVALUATED							
		AS SUBMITTED	986,577.77		177,584.00	58,208.09	235,792.09	1,222,369.86	
TOTAL		AS EVALUATED							
		AS SUBMITTED	108,666,582.58		19,349,066.64	6,400,782.46	25,749,849.10	134,416,431.68	

Preparation and Submission:

Prepared by:

Checked/Submitted by:

Evaluation:

Approval:

Approved:

JOSEPHINE B. RENGQUIJO
Engineer II
DPWH RO9

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

Reviewed as to Unit Cost:
SATURNINO C. TORREFRANCA
OIC-Chief, Planning & Design Division
DPWH RO9

Recommending Approval:
KHADAFY D. TANGGOL
OIC-Assistant Regional Director
DPWH RO9

CAYAMOMBAO D. DIA
OIC-Regional Director
DPWH RO9



DPWH REGIONAL OFFICE IX

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR BOUNDARY

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				
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									
		AS SUBMITTED	1.00	L.S.	490,289.11	18%	88,252.04	28,927.06	117,179.10	607,468.20	607,468.20
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.	459,337.30	0%	-	22,966.87	22,966.87	482,304.17	482,304.17
	TOTAL OF PART A	AS EVALUATED									
		AS SUBMITTED			1,156,206.41		104,778.44	63,049.24	167,827.68	1,324,034.09	
PART B	OTHER GENERAL REQUIREMENTS										
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	5.14	km.	147,090.76	18%	26,476.34	8,678.35	35,154.69	182,245.45	35,456.31
B.7	Occupational Safety and Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	217,910.50	8%	17,432.84	11,767.17	29,200.01	247,110.51	247,110.51
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
	TOTAL OF PART B	AS EVALUATED									
		AS SUBMITTED			856,183.31		46,533.48	45,135.84	91,669.32	947,852.63	

Preparation and Submission:

Evaluation:

Prepared by:

Checked/Submitted by:

Reviewed as to Unit Cost:

JOSEPHINE B. RENGQUIJO

Engineer II

DPWH RO9

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee

DPWH RO9

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division

DPWH RO9

PART C	EARTHWORKS										
101(3)	Removal of Existing Headwall	AS EVALUATED									
		AS SUBMITTED	24.00	each	70,041.72	18%	12,607.51	4,132.46	16,739.97	86,781.69	3,615.90
102(2)	Surplus Common Excavation	AS EVALUATED									
		AS SUBMITTED	63,699.00	cu.m.	11,771,224.86	18%	2,118,820.47	694,502.27	2,813,322.74	14,584,547.60	228.96
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	30.00	cu. m.	43,321.55	18%	7,797.88	2,555.97	10,353.85	53,675.40	1,789.18
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	39.00	cu.m.	8,963.36	18%	1,613.40	528.84	2,142.24	11,105.60	284.76
104(1)a1	Embankment from Roadway Excavation	AS EVALUATED									
		AS SUBMITTED	25,605.00	cu.m.	5,912,743.81	18%	1,064,293.89	348,851.88	1,413,145.77	7,325,889.58	286.11
105(1)a	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	55,121.00	sq.m.	882,627.54	18%	158,872.96	52,075.02	210,947.98	1,093,575.52	19.84
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			18,688,922.83		3,364,006.11	1,102,646.45	4,466,652.56	23,155,575.39	
PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED									
		AS SUBMITTED	20,135.00	cu. m.	27,094,970.31	18%	4,877,094.66	1,598,603.25	6,475,697.90	33,570,668.22	1,667.28
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED			27,094,970.31		4,877,094.66	1,598,603.25	6,475,697.90	33,570,668.22	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer

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

PART E	SURFACE COURSES										
300(1)	Gravel Surface Course, 0.15m. Thick	AS EVALUATED									
		AS SUBMITTED	2,544.00	cu. m.	3,882,691.66	18%	698,884.50	229,078.81	927,963.31	4,810,654.97	1,890.98
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	AS EVALUATED									
		AS SUBMITTED	34,438.00	sq. m.	55,060,879.61	18%	9,910,958.33	3,248,591.90	13,159,550.23	68,220,429.83	1,980.96
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			58,943,571.27		10,609,842.83	3,477,670.70	14,087,513.53	73,031,084.80	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES										
500(1)b3	Reinf. Conc. Culvert Pipe, 910mm dia.	AS EVALUATED									
		AS SUBMITTED	131.00	ln. m.	357,475.34	18%	64,345.56	21,091.05	85,436.61	442,911.95	3,381.01
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	46.00	cu. m.	157,768.51	18%	28,398.33	9,308.34	37,706.67	195,475.18	4,249.46
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	101.00	cu. m.	424,906.84	18%	76,483.23	25,069.50	101,552.73	526,459.57	5,212.47
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			940,150.69		169,227.12	55,468.89	224,696.01	1,164,846.70	

Preparation and Submission:

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DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

QC-Chief, Planning & Design Division
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PART H	MISCELLANEOUS STRUCTURES										
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED									
		AS SUBMITTED	1,284.00	sq.m.	986,577.77	18%	177,584.00	58,208.09	235,792.09	1,222,369.86	952.00
622(1)a	Coco-net	AS EVALUATED									
		AS SUBMITTED	-	sq.m.	-	18%	-	-	-	-	#DIV/0!
622(2)b	Coco-logs/Fascine	AS EVALUATED									
		AS SUBMITTED	-	ln.m.	-	18%	-	-	-	-	#DIV/0!
622(3)a	Vegetation	AS EVALUATED									
		AS SUBMITTED	-	sq.m.	-	18%	-	-	-	-	#DIV/0!
	TOTAL OF PART H	AS EVALUATED									
		AS SUBMITTED			986,577.77		177,584.00	58,208.09	235,792.09	1,222,369.86	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			108,666,582.58		19,349,066.64	6,400,782.46	25,749,849.10	134,416,431.68	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENEQUIJO
Engineer II
DPWH RO9

Checked/Submitted by:

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

Evaluation:

Reviewed as to Unit Cost

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

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**ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR BOUNDARY
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	0.451	1.00		329,786.38	109,329.75	51,172.98	490,289.11	18%	88,252.04	28,927.06	607,468.20
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for theField Office for the Engineers	AS EVALUATED			L. S.								
		AS SUBMITTED	0.190	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	0.423	1.00		290,540.50	168,796.80	-	459,337.30	0%	-	22,966.87	482,304.17
	TOTAL OF PART A	AS EVALUATED											
		AS SUBMITTED	1.064			826,906.88	278,126.55	51,172.98	1,156,206.41		104,778.44	63,049.24	1,324,034.09
PART B	OTHER GENERAL REQUIREMENTS												
B.5	Project Billboard/Signboard	AS EVALUATED			units								
		AS SUBMITTED	0.013	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	0.135	5.14		31,156.88	102,055.88	13,878.00	147,090.76	18%	26,476.34	8,678.35	182,245.45
B.7	Occupational Safety and Health Program	AS EVALUATED			L. S.								
		AS SUBMITTED	0.201	1.00		49,000.00	168,910.50	-	217,910.50	8%	17,432.84	11,767.17	247,110.51
B.9	Mobilization & Demobilization	AS EVALUATED			L. S.								
		AS SUBMITTED	0.439	1.00		-	-	476,602.56	476,602.56	0%	-	23,830.13	500,432.69
	TOTAL OF PART B	AS EVALUATED											
		AS SUBMITTED	0.788			93,816.88	271,885.87	490,480.56	856,183.31		46,533.48	45,135.84	947,852.63
PART C	EARTHWORKS												
101(3)	Removal of Existing Headwall	AS EVALUATED			each								
		AS SUBMITTED	0.064	24.00		-	3,591.17	66,450.55	70,041.72	18%	12,607.51	4,132.46	86,781.69
102(2)	Surplus Common Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	10.832	63,699.00		-	230,823.94	11,540,400.91	11,771,224.86	18%	2,118,820.47	694,502.27	14,584,547.60
103(3)	Foundation Fill	AS EVALUATED			cu. m.								
		AS SUBMITTED	0.040	30.00		33,416.70	6,301.83	3,603.02	43,321.55	18%	7,797.88	2,555.97	53,675.40
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	0.008	39.00		-	423.97	8,539.39	8,963.36	18%	1,613.40	528.84	11,105.60
104(1)a1	Embankment from Roadway Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	5.441	25,605.00		-	161,010.72	5,751,733.09	5,912,743.81	18%	1,064,293.89	348,851.88	7,325,889.58
105(1)a	Subgrade Preparation	AS EVALUATED			sq.m.								
		AS SUBMITTED	0.812	55,121.00		-	31,651.17	850,976.37	882,627.54	18%	158,872.96	52,075.02	1,093,575.52



**ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR BOUNDARY
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.	490,289.11		490,289.11		607,468.20		0.451
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		0.190
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	1.00		L.S.	459,337.30		459,337.30		530,534.58		0.423
	TOTAL OF PART A				1,156,206.41						1.064
PART B	OTHER GENERAL REQUIREMENTS										
B.5	Project Billboard/Signboard	4.00		units	14,579.49		3,644.87		4,516.00		0.013
B.4 (1)	Construction Survey and Staking	5.14		km.	147,090.76		28,616.88		35,456.31		0.135
B.7	Occupational Safety and Health Program	1.00		L. S.	217,910.50		217,910.50		269,991.11		0.201
B.9	Mobilization & Demobilization	1.00		L. S.	476,602.56		476,602.56		590,510.57		0.439
	TOTAL OF PART B				856,183.31						0.788
PART C	EARTHWORKS										
101(3)	Removal of Existing Headwall	24.00		each	70,041.72		2,918.40		3,469.98		0.064
102(2)	Surplus Common Excavation	63,699.00		cu.m.	11,771,224.86		184.79		228.96		10.832
103(3)	Foundation Fill	30.00		cu. m.	43,321.55		1,444.05		1,789.18		0.040
103(6)a	Pipe Culvert and Drain Excavation	39.00		cu.m.	8,963.36		229.83		284.76		0.008
104(1)a1	Embankment from Roadway Excavation	25,605.00		cu.m.	5,912,743.81		230.92		286.11		5.441
105(1)a	Subgrade Preparation	55,121.00		sq.m.	882,627.54		16.01		19.84		0.812
	TOTAL OF PART C				18,688,922.83						17.198

PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course, 0.30 m. thick	20,135.00		cu. m.	27,094,970.31		1,345.67		1,667.28		24.934
	TOTAL OF PART D				27,094,970.31						24.934
PART E	SURFACE COURSES										
300(1)	Gravel Surface Course, 0.15m. Thick	2,544.00		cu. m.	3,882,691.66		1,526.22		1,890.98		3.573
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	34,438.00		sq. m.	55,060,879.61		1,598.84		1,980.96		50.670
	TOTAL OF PART E				58,943,571.27						54.243
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES										
500(1)b3	Reinf. Conc. Culvert Pipe, 910mm dia.	131.00		ln. m.	357,475.34		2,728.82		3,381.01		0.329
505(2)a	Grouted Riprap, Class "A"	46.00		cu. m.	157,768.51		3,429.75		4,249.46		0.145
506(1)	Stone Masonry	101.00		cu. m.	424,906.84		4,207.00		5,212.47		0.391
	TOTAL OF PART G				940,150.69						0.865
PART H	MISCELLANEOUS STRUCTURES										
612(1)	Reflectorized Thermoplastic Pavement Marking, White	1,284.00		sq.m.	986,577.77		768.36		952.00		0.908
	TOTAL OF PART H				986,577.77						0.908
	GRAND TOTAL				108,666,582.58						100.000



ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR BOUNDARY
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			
	SUB-TOTAL				SUB-TOTAL		
					TOTAL		

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : A.1.1(3) 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				
Conf. Foreman	1	120.00	80.95	9,714.15
Skilled Laborers	8	120.00	58.61	56,265.80
Laborers	8	120.00	45.16	43,350.00
Sub - Total for A.1 - As Submitted				109,329.75
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
Equipment				
One Bagger Wker	1	120.00	172.00	20,640.00
Waler 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				160,502.73
Total (A.1 + B.1) - As Submitted				
C.2				
Total (A.2 + B.2) - As Evaluated				
D.1				1.00
Output per hour - As Submitted				
D.2				1.00
Output per hour - As Evaluated				
E.1				160,502.73
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				
Portland Cement	bag	220.00	291.12	64,045.56
Crushed Gravel	cu m.	15.00	1,163.60	17,529.00
Washed Sand	cu m.	25.00	1,284.60	32,115.00
Reinforcing Steel Bars, Grade 60	kg.	800.00	43.00	34,400.00
Tie Wire	kg.	35.00	68.00	2,380.00
Lumber	bcd fl.	250.00	23.00	5,750.00
Assorted CN Nails	kg.	20.00	58.00	1,160.00
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 Heavy Duty Fast Type swing door complete w/ accessories	set	1.00	1,495.20	1,495.20
Angle Bars	kg.	640.00	52.00	33,280.00
Purlins, C-150mm x 50 x 3mm	kg.	35.00	52.00	1,820.00
Term da. Cross Bracing	kg.	65.00	50.00	3,250.00
Term da. Turn Buckle	kg.	30.00	230.00	6,900.00
12mm tht. Base Plate	kg.	45.00	50.00	2,250.00
10mm tht. Ballen Plate	kg.	30.00	50.00	1,500.00
10mm da. Sng Rod	kg.	15.00	50.00	750.00
20mm da. X 350 mm Anchor Bolts	pc.	150.00	50.00	7,500.00
Welding Rod	kg.	25.00	130.00	3,250.00
Primer, Zinc Chromate	kg.	5.00	531.00	2,655.00
Pre-painted G.I. Roofing Shit, Long Span	gal	55.00	420.00	23,100.00
Pre-painted Flashing Ridge Roif 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
Tackscrew 1-1/2"	ln m.	1,000.00	1.25	1,250.00
Rood Sealant	pc.	2.00	230.00	460.00
Rough Lumber Sun dried Tanglele	bcd fl.	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	rol	1.00	3,600.00	3,600.00
8.00mm2 THW	m	20.00	69.33	1,386.60
15mm da. PVC Pipe	pc.	20.00	76.00	1,520.00
15mm da. PVC Coupling	pc.	20.00	27.00	540.00
15mm da. PVC Elbow	pc.	20.00	26.00	520.00

15mm da. PVC Clamp	pc.	50.00	8.00	400.00
20mm da. RSC pipe	pc.	4.00	240.00	960.00
20mm da. RSC Coupling	pc.	3.00	36.00	108.00
20 mm da RSC Elbow	pc.	3.00	30.00	90.00
20 mm da RSCClamp	pc.	10.00	18.00	180.00
20mm da. 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				329,786.38
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				490,289.11
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		49,028.91
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		38,223.13
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)		28,927.06
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)		607,469.20
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. NENESQUILLO
Engineer II
DPWH ROC9

Checked/Reviewed by:

JERALD B. BARRERA
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ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE
ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : A.1.1(1) Provision of Furnitures/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				
Sub - Total for A.2 - As Evaluated				
Name and Capacity				
	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
B.1				
Equipment				-
				-
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				
				-
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				
				-
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
White Board, 3' x 5'	each	1.00	2,000.00	2,000.00
8-seater Monobook Dining Table	unit	1.00	5,000.00	5,000.00
Monobook 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.	3.00	2,000.00	2,000.00
6" Sleeping Bag w/ pillows & blanket	pc.	1.00	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
Cartidge(Computer Printer Ink)	each	12.00	1,000.00	12,000.00
Blank Paper(Long)	ream	20.00	350.00	7,000.00
Blank Paper(Short)	ream	15.00	300.00	4,500.00
Pad Paper	pads	6.00	60.00	360.00
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
Ballpen	box	3.00	250.00	750.00
Pencils	box	2.00	150.00	300.00
Paper Clips	box	2.00	45.00	90.00
Fasteners	box	4.00	50.00	200.00
Eraser(Ink, pencil)	box	2.00	120.00	240.00
Single Wire	box	6.00	150.00	900.00
Cutter Blade	box	3.00	200.00	600.00
Gale	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
Pencil per(Assorted Colors)	pcs.	12.00	50.00	600.00
White Board Marker(Assorted Colors)	pcs.	12.00	90.00	1,080.00
Letter Envelope, White (long)	box	2.00	130.00	260.00
Data File Folder	pcs.	6.00	150.00	900.00
Sign Pen, Assorted	doz.	2.00	500.00	1,000.00
Laptop	unit	1.00	60,000.00	60,000.00
Computer Printer (Scanner & Photocopy)	unit	1.00	8,000.00	8,000.00
Digital Camera	unit	1.00	10,000.00	10,000.00
USB (32 GB)	unit	2.00	600.00	1,200.00
Water dispenser	unit	1.00	5,000.00	5,000.00

F.1

Electric Fan	pc.	3.00	2,000.00	6,000.00
Steel Cabinet	unit	1.00	5,000.00	5,000.00
Gas Stove w/ Tank	set	1.00	3,500.00	3,500.00
Stove Tank Refill	tanks	6.00	850.00	5,100.00
Wall Clock	unit	2.00	500.00	1,000.00
Rice Cooker	unit	1.00	1,300.00	1,300.00
Electric Apopt	unit	1.00	1,800.00	1,800.00
Water Container	pc.	2.00	300.00	600.00
Puncher	pc.	1.00	300.00	300.00
Shapler	pc.	3.00	300.00	900.00
Bulletin/Cork Board 2 x 3	pc.	2.00	500.00	1,000.00
Scissors	pc.	4.00	50.00	200.00
Record Book (500 leaves)	pc.	6.00	130.00	780.00
Folding Bed	pc.	3.00	1,800.00	5,400.00
Bedsheet(s)(Single)	pc.	6.00	500.00	3,000.00
Rechargeable Lamps	unit	3.00	750.00	2,250.00
Sub - Total for F.1 - As Submitted				206,580.00
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted			206,580.00
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated			-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted	15% / 12% / 10% / 8% of G.1		-
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated	15% / 12% / 10% / 8% of G.2		-
I.1	Contractor's Profit (CP) - As Submitted	10% / 8% of G.1		16,526.40
I.2	Contractor's Profit (CP) - As Evaluated	10% / 8% of G.2		-
J.1	Value Added Tax (VAT) - As Submitted	5% of (G.1 + H.1 + I.1)		11,155.32
J.2	Value Added Tax (VAT) - As Evaluated	5% of (G.2 + H.2 + I.2)		-
K.1	Total Unit Cost - As Submitted	(G.1 + H.1 + I.1 + J.1)		234,261.72
K.2	Total Unit Cost - As Evaluated	(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENOVALDO
Engineer II
DPWH RO9

Checked/Reviewed by:

GERALD B. BARRERA
Engineer II
DPWH RO9

**ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTIESUR
ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)**

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

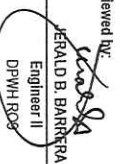
Quantity : 1.00
Unit of Measurement : L.S.
Output per hour - As Submitted : 1.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
A.1				
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
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				
Service Vehicle	1	-		-
				-
Sub - Total for B.1 - As Submitted				-
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				168,796.80
Total (A.1 + B.1) - As Submitted				
C.2				-
Total (A.2 + B.2) - As Evaluated				
D.1				1.00
Output per hour - As Submitted				
D.2				1.00
Output per hour - As Evaluated				
E.1				168,796.80
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)
F.1				
Materials				
Diesel Fuel	liters	3,530.00	51.00	180,030.00
Engine Oil & Lubricants	L.S.	1.00	27,004.50	27,004.50
Tires	pcs.	5.00	9,500.00	47,500.00
Spare Parts	L.S.	1.00	36,095.00	36,095.00
Sub - Total for F.1 - As Submitted				-
Materials				
F.2				290,540.50
Sub - Total for F.2 - As Evaluated				
G.1				459,337.30
Direct Unit Cost (E.1 + F.1) - As Submitted				
G.2				-
Direct Unit Cost (E.2 + F.2) - As Evaluated				
H.1			15% / 12% / 10% / 8% of G.1	45,933.73
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				
H.2			15% / 12% / 10% / 8% of G.2	-
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
I.1			10% / 8% of G.1	-
Contractor's Profit (CP) - As Submitted				
I.2			10% / 8% of G.2	-
Contractor's Profit (CP) - As Evaluated				
J.1			5% of (G.1 + H.1 + I.1)	25,265.55
Value Added Tax (VAT) - As Submitted				
J.2			5% of (G.2 + H.2 + I.2)	-
Value Added Tax (VAT) - As Evaluated				
K.1			(G.1 + H.1 + I.1 + J.1)	530,534.58
Total Unit Cost - As Submitted				
K.2			(G.2 + H.2 + I.2 + J.2)	-
Total Unit Cost - As Evaluated				

Prepared by:


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Engineer II
DPWH ROC9

Checked/Reviewed by:


GERALD B. BARRERA
Engineer II
DPWH ROC9

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 5.14
 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)
Labor				
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
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
Sub - Total for A.1 - As Submitted				19,855.23
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
Total Station Complete w/ accessories	1	27.00	100.00	2,700.00
				-
Sub - Total for B.1 - As Submitted				2,700.00
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				22,555.23
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				22,555.23
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1				
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				-
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
				-
Sub - Total for F.1 - As Submitted				6,061.65
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				28,616.88
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		2,661.69
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		2,289.35
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)		1,688.40
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)		35,655.31
K.2				
Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

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 DPWH-RO3

Checked/Reviewed by:

JEKALD B. BARRERA

Engineer II
 DPWH-RO3

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR
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)
Labor				
				0.00
A.1				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	1	1.00	58.61	58.61
Laborers	2	1.00	45.16	90.31
				0.00
Sub - Total for A.1 - As Submitted				229.87
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
Sub - Total for B.1 - As Submitted				-
Equipment				
Sub - Total for B.2 - As Evaluated				229.87
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				1.00
D.2				
Direct Unit Cost (C.1 + D.1) - As Submitted				229.87
E.1				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
E.2				
Sub - Total for F.1 - As Submitted				3,415.00
Materials				
Sub - Total for F.2 - As Evaluated				3,644.87
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				364.49
G.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				291.59
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				215.05
I.1				
Contractor's Profit (CP) - As Submitted				4516.00
J.1				
Value Added Tax (VAT) - As Evaluated				-
K.1				
Total Unit Cost - As Submitted				-
K.2				
Total Unit Cost - As Evaluated				-

Prepared by:

JOSEPHINE E. RENCOLUID

Engineer I
 DPWH RO9

Checked/Reviewed by:

JERARD B. BARRERA

Engineer II
 DPWH RO9

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

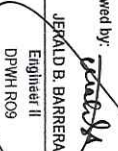
Quantity : 1.00
 Unit of Measurement : l.s.
 Output per hour - As Submitted : 1.00
 Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
Labor				
				0.00
A.1				
Safety Practionner	1	706.00	58.61	41,378.65
First Aider	1	2,824.00	45.16	127,531.84
				0.00
Sub - Total for A.1 - As Submitted				0.00
				168,910.50
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
B.1				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
				-
				-
				-
Sub - Total for B.1 - As Submitted				-
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
				168,910.50
G.1				
Total (A.1 + B.1) - As Submitted				168,910.50
G.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				168,910.50
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Materials				
F.1				
Rubber Boots/Kent Long w/ Steel Toe, Black	pc.	30.00	500.00	15,000.00
Working Gloves (Kang 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				
F.2				
Sub - Total for F.2 - As Evaluated				
				217,910.50
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2				
Direct Unit Cost (E.2 + F.2) - As Evaluated				21,791.05
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	17,432.84
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	12,058.72
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)	269,991.11
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. RENGULIO
 Engineer II
 DPWH RO8

Checked/Reviewed by:


 JERALD B. BARRERA
 Engineer II
 DPWH RO9

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

Item No. / Description : B9 Mobilization/Demobilization

Quantity : 1.00
Unit of Measurement : 1.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
Sub - Total for A.1 - As Submitted				0.00
A.2				
Labor				
Sub - Total for A.2 - As Evaluated				
B.1				
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				-
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				476,602.56
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1				
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				-
				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				-
Materials				-
F.2				
Sub - Total for F.2 - As Evaluated				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				47,660.26
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	36,128.20
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)	-
K.1				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	590,510.57
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. HENSCULO
Engineer II
DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA
Engineer II
DPWH RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

101(3)

Removal of Existing Headwall

: 24.00
 : each
 : 1.15
 :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
A.1	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Laborers	2	1.00	45.16	90.31
	Sub - Total for A.1 - As Submitted				172.26
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				
	Backhoe w/ breaker	1	0.50	1,998.10	999.05
	Backhoe	1	0.50	1,537.00	768.50
	Dump truck	1	1.00	1,420.00	1,420.00
	Sub - Total for B.1 - As Submitted				3,187.55
	Equipment				
B.2	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				3,359.81
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				1.15
D.2	Output per hour - As Evaluated				1.15
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				2,918.40
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
F.1	Materials				
	Sub - Total for F.1 - As Submitted				-
	Materials				
F.2	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				2,918.40
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		291.84
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		233.47
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)		26.27
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)		3,469.95
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Checked/Reviewed by:

JOSEPHINE B. RENGOLLO
Engineer II
BPWHA09

JERALD B. BARRERA
Engineer II
DPWH RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 102(2) Surplus Common Excavation

Quantity : 63,699.00
Unit of Measurement : cum.
Output per hour - As Submitted : 60.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
A.1				
Labor				
Cont. Foreman	1	1.00	80.95	80.95
Workers	3	1.00	45.16	135.47
Sub - Total for A.1 - As Submitted				217.42
Labor				
A.2				
Note: Additional number & time for dump trucks were added due to rather hauling distance of about 10 km.				
Sub - Total for A.2 - As Evaluated				
B.1				
Equipment				
Bulldozer	1	1.00	3,379.00	3,379.00
Payloader	1	1.00	1,733.00	1,733.00
Payloader	1	0.25	1,733.00	433.25
Dump Truck	3	1.25	1,420.00	5,325.00
Sub - Total for B.1 - As Submitted				10,870.25
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				11,087.67
C.2				
Total (A.2 + B.2) - As Evaluated				-
D.1				
Output per hour - As Submitted				60.00
D.2				
Output per hour - As Evaluated				60.00
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				184.79
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1				
Materials				
Sub - Total for F.1 - As Submitted				-
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				184.79
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	18.48
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	14.78
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)	10.90
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)	228.96
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENOLOJO
Engineer I
DPWH RO9

Checked/Reviewed by:

JERARD B. BARRERA
Engineer II
DPWH RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 39.00
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
Laborers	3	1.00	45.16	135.47
Sub - Total for A.1 - As Submitted				217.42
Labor				
A.2				
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				-
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				4,379.17
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				229.83
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1				
Materials				
Sub - Total for F.1 - As Submitted				-
F.2				
Sub - Total for F.2 - As Evaluated				229.83
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				22.98
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.1	-
H.2				
Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	18.39
I.1				
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 + J.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)	-

Prepared by:

JOSEPHINE B. REIGALDO
Engineer I
DPWH RO9

Checked/Reviewed by:

JEROLD B. BARRERA
Engineer II
DPWH RO9

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR
ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 104(1)a1 Embankment from Excavation

Quantity : 25,605.00
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)
Labor				
Excavation Work:				
Cont. Foreman	1	0.83	80.95	67.19
Laborers	2	0.83	45.16	74.96
A.1				
Spreading & Compaction:				
Cont. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
Sub - Total for A.1 - As Submitted				314.41
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
Excavation Work:				
Backhoe	1	0.83	3,379.00	2,804.57
Payloader	1	0.83	1,733.00	1,438.39
Dump Truck	2	0.83	1,420.00	2,357.20
B.1				
Spreading & Compaction:				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Walter Truck	1	0.25	2,450.00	612.50
Sub - Total for B.1 - As Submitted				11,231.66
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				11,546.07
C.2				
Total (A.2 + B.2) - As Evaluated				-
D.1				
Output per hour - As Evaluated				50.00
D.2				
Output per hour - As Evaluated				230.92
E.1				
Direct Unit Cost (G.1 + D.1) - As Submitted				-
E.2				
Direct Unit Cost (G.2 + D.2) - As Evaluated				-
Materials				
Materials				
Sub - Total for F.1 - As Submitted				-
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				230.92
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	23.09
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	18.47
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)	13.62
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)	286.11
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:



JOSEPHINE B. RENSAULUO
Engineer II
DPWH RO9

Checked/Reviewed by:


JERARD B. BARRERA
Engineer II
DPWH RO9

Foundation Fill

:	30.00
:	cu.m.
:	1.25
:	

by 
JOSEPHINE B. RENGUALO
Engineer II
DPWH RO9

Reviewed by: *[Signature]*
JERALD B. BARRERA
Engineer II
DPWH RO9

~~JERALD B. BARRERA~~

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

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

Quantity : 55,121.00
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)
A.1				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
				0.00
				0.00
Sub - Total for A.1 - As Submitted				172.26
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
B.1				
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
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				-
F.1				
Materials				
				-
				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				-
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				16.01
G.2				
Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		1.60
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)		-

Prepared by:

JOSEPHINE B. RENGOLLO
Engineer II
DPWH RO9

Checked/Reviewed by:

GERALD B. BARRERA
Engineer II
DPWH RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

200(1)

9

• •

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	45.16	90.31
				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				50.00
D.2 Output per hour - As Evaluated				50.00
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				96.08
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				*
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
Aggregate Subbase Course	cu.m.	1.15	1,086.60	1,249.59
(w/ 15% shrinkage)				-
F.1				-
				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				1,249.59
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				1,345.67
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15%, 12%, 10%, 6% of G.1		134.57
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15%, 12%, 10%, 6% of G.2		-
I.1 Contractor's Profit (CP) - As Submitted		10% / 6% of G.1		107.65
I.2 Contractor's Profit (CP) - As Evaluated		10% / 6% of G.2		-
J.1 Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		79.39
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)		1,667.28
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Checked/Reviewed by:

Engineer II
DPWH ROSS

Engineer II
DPWH RO3

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR
ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 2,544.00
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)
Labor				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
				0.00
				0.00
Sub - Total for A.1 - As Submitted				172.26
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
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
Sub - Total for B.1 - As Submitted				4,631.50
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				4,893.76
C.2				-
D.1				50.00
D.2				50.00
E.1				96.08
E.2				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
Gravel Surface Course	cu.m.	1.15	1,243.80	1,430.14
(w/ 15% shrinkage)				-
F.1				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				1,430.14
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				1,526.22
G.2				-
H.1				152.62
H.2				-
I.1				122.10
I.2				-
J.1				90.05
J.2				-
K.1				1,890.98
K.2				-

Prepared by:

JOSEPHINE B. RENGOLLO
Engineer II
DPWH RO9

Checked/Reviewed by:

JERALD B. BARRERA
Engineer II
DPWH RO9

ROAD WIDENING - PRIMARY ROADS - DIPOLOG - PUNTA - DANSULLAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE
ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 31101e1 Portland Cement Concrete Pavement, 0.28m. Thk.

Quantity : 34,438.00
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)
Labor				
Cont. 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
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
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
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				12,897.78
Total (A.1 + B.1) - As Submitted				
C.2				-
Total (A.2 + B.2) - As Evaluated				57.50
D.1				57.50
Output per hour - As Submitted				57.50
D.2				224.31
Output per hour - As Evaluated				224.31
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				
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
F.1				197.83
Fine Aggregates	cu.m	0.1540	1,284.60	327.21
Coarse Aggregates	cu.m	0.28	1,168.60	774.37
Portland Cement	bag	2.66	291.12	774.37
Concrete Saw (Diamond Blade 14" dia)	pc.	0.00015	8,000.00	1.20
Pipe Sleeve, 1" dia	m	0.0078	40.00	0.31
Grease/Tar	l	0.0078	21.00	0.16
Sub - Total for F.1 - As Submitted				1,374.53
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				1,598.84
Direct Unit Cost (E.1 + F.1) - As Submitted				
G.2				-
Direct Unit Cost (E.2 + F.2) - As Evaluated				159.88
H.1				-
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				-
H.2				15% / 12% / 10% / 8% of G.1
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				15% / 12% / 10% / 8% of G.2
I.1				10% / 8% of G.1
Contractor's Profit (CP) - As Submitted				10% / 8% of G.1
I.2				10% / 8% of G.2
Contractor's Profit (CP) - As Evaluated				5% of (G.1 + H.1 + I.1)
J.1				5% of (G.2 + H.2 + I.2)
Value Added Tax (VAT) - As Submitted				5% of (G.2 + H.2 + I.2)
J.2				5% of (G.1 + H.1 + I.1)
Value Added Tax (VAT) - As Evaluated				5% of (G.2 + H.2 + I.2)
K.1				1,990.96
Total Unit Cost - As Submitted				-
K.2				-
Total Unit Cost - As Evaluated				-

Prepared by:

JOSEPHINE K. RENCUILO
Engineer II
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Checked/Reviewed by:

JERARD B. BARRERA
Engineer II
DPWH RO9


ROAD WIDENING - PRIMARY ROADS - DIPOL OG - PUNTA - DANSULAN - SERGIO OSMEÑA - ZAMBOANGA DEL NORTE/SUR
ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 46.00
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)
Labor				
Cont. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Labors	8	1.00	45.16	361.25
A.1				
				0.00
				0.00
Sub - Total for A.1 - As Submitted				479.47
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
One Bagger Mixer	1	1.00	172.00	172.00
Water Truck/Pump	1	0.05	2,450.00	122.50
B.1				
				-
				-
				-
Minor Tools (5 % of Labor Cost)				23.97
Sub - Total for B.1 - As Submitted				318.47
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				797.94
C.2				-
D.1				1.25
D.2				1.25
E.1				638.35
E.2				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
Portland Cement	bag	3.00	291.12	873.35
Fine Aggregates	cum.	0.250	1,294.50	321.15
Gravel Fill	cum.	0.015	1,168.60	17.53
50mm (2") PVC Pipe	m.	0.30	115.33	34.60
Filler Cloth	sq.m.	0.015	160.00	2.40
Boulders	cum.	1.05	1,442.50	1,514.73
Misc (1% of Materials Cost)				27.64
Sub - Total for F.1 - As Submitted				2,791.40
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				3,429.75
G.2				-
H.1				342.98
H.2				-
I.1				274.38
I.2				-
J.1				202.36
J.2				-
K.1				4,249.46
K.2				-

Prepared by: 
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DPWH RO9

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

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

Quantity : 101.00
Unit of Measurement : cu.m.
Output per hour - As Submitted : 1.80
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
Skilled Laborers	2	1.00	58.61	117.22
Laborers	8	1.00	45.16	361.25
A.1				
				0.00
				0.00
Sub - Total for A.1 - As Submitted				479.47
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
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.1				
				-
				-
				-
Minor Tools (10 % of Labor Cost)				47.95
Sub - Total for B.1 - As Submitted				496.15
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				975.62
C.2 Total (A.1 + B.1) - As Submitted				-
D.1 Output per hour - As Submitted				1.80
D.2 Output per hour - As Evaluated				1.80
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				609.76
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
Portland Cement	bag	5.50	291.12	1,601.14
Fine Aggregates	cu.m.	0.300	1,284.60	385.38
F.1 Gravel Fill	cu.m.	0.020	1,168.60	23.37
50mm. (2") PVC Pipe	m.	0.30	115.33	34.60
Filter Cloth	sq.m.	0.015	160.00	2.40
Dozers	cu.m.	1.05	1,442.60	1,514.73
Misc. (1% of Materials Cost)				35.62
Sub - Total for F.1 - As Submitted				3,597.24
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				4,207.00
G.2 Direct Unit Cost (E.2 + F.2) - As Submitted				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				420.70
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit (CP) - As Submitted				336.56
I.2 Contractor's Profit (CP) - As Evaluated				-
J.1 Value Added Tax (VAT) - As Submitted				248.21
J.2 Value Added Tax (VAT) - As Evaluated				-
K.1 Total Unit Cost - As Submitted				5,212.47
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

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UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the District Office to Site

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

Hauling: **Using 10.00 cu.m.capacity Dumptruck**

Weight of Dumptruck (cap. 10.00 cu.m.)	:	16,000.00	Kgs.
Unit weight of Fine Aggregates	:	1,640.00	Kg/m ³
Unit weight of Coarse Aggregates	:	1,534.00	Kg/m ³
Maximum Volume to be Carried per DT	:	11.57	cu.m.

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

Speed when loaded	:	30.00	kph
Speed when unloaded	:	40.00	kph
Loaded running	=	$\frac{5.00 \times 60}{30.00}$	= 10.00 mins.
Unloaded running	=	$\frac{5.00 \times 60}{40.00}$	= 7.50 mins.
Loading and Unloading	:	5.00	mins.
Capacity of Dumptruck	:	10.00	cu.m.
Total Cycle time	:	22.50	mins.
No. of tips for Dumptruck per day	=	$\frac{8 \times 60.00}{22.50}$	= 21.33 say 21.33 trips
Dumptruck daily output	=	10 x 21.33	= 213.33 cu.m.
Using (4) Dumptrucks	=	4 x 213.33	= 853.33 cu.m.

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

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

ZAMBOANGA DEL NORTE 3rd DEO

	Ave. Hauling Distance	Unit Cost per cum./km.	Hauling Cost per cum.	Unit Price	Unit Cost per cum.
Cost of Fine Aggregates:	44.00	X 10.65 =	468.60 +	816.00 =	1,284.60
Cost of Coarse Aggregates:	44.00	X 10.65 =	468.60 +	700.00 =	1,168.60
Cost of Item 200 Materials:	44.00	X 10.65 =	468.60 +	618.00 =	1,086.60
Cost of Item 201 Materials:	44.00	X 10.65 =	468.60 +	663.00 =	1,131.60
Cost of Item 300 Materials:	44.00	X 10.65 =	468.60 +	775.00 =	1,243.60
Cost of Boulders:	44.00	X 10.65 =	468.60 +	974.00 =	1,442.60
Cost of Embankmen, Common Borrow:	10.00	X 10.65 =	106.50 +	400.00 =	506.50
Cost of Embankmen, Selected Borrow:	44.00	X 10.65 =	468.60 +	500.00 =	968.60

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	44.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :

say 44.00 km.

Delivery Charge = P 0.120 x 44.00
= P **5.28** / 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	=	$\frac{44.00}{30.00} \times 60$		= 88.00 mins.
Unloaded running	=	$\frac{44.00}{40.00} \times 60$		= 66.00 mins.
Loading and Unloading	:	45.00	mins.	
Capacity of Dumptruck	:	8.00	cu.m.	
	:	500.00	bags	
Total Cycle time	:	199.00	mins.	
No. of trips for Dumptruck per day	=	$\frac{8.0}{199.00} \times 60.00$		= 2.41 say 2.41 trip
Dumptruck daily output	=	500 x 2.41		= 1,206.03 cu.m.
Using (4) Dumptrucks	=	4 x 1206.03		= 4,824.12 cu.m.

- No. of days for Delivery Truck = $\frac{78,110.00}{4,824.12}$ = 16.19 say 16.19 days
- No. of days for Labor, for unloading = complimentary to D. Truck days = 16.19 days

DELIVERY COST :

78,110.00 - Bags, Portland Cement	@ P	5.28	/ bag	= P	412,420.80
Sub - Total				P	412,420.80

LABOR :

1 - Foreman	@ P	611.92 /day	x 16.19 days	= P	9,907.93
10 - Laborers, unloading	@ P	342.24 /day	x 16.19 days	= P	55,413.97
Sub - Total				P	65,321.90

MATERIALS :

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

Estimated Quantity	78,110.00 Bags			
Unit Cost	P	291.12 / Bag,	say P	291.12 / Bag
Grand Total	P	22,739,092.70		
Delivery Cost	P	412,420.80		
Labor	P	65,321.90		
Materials	P	22,261,350.00		