



DPWH REGIONAL OFFICE IX

19700130

PROGRAM OF WORKS/BUDGET COST

Project : CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY.MAHAYAHAY, MALUSO, BASILAN

Net Length : (a) Road 480.00 In.m. = 0.960 lane.km.

Project ID : _____

(b) Bridge

Location : MALUSO, BASILAN

(c) Others

Station Limits : Sta. 0 000.00 - Sta. 0 + 480.00

Target Start Date : _____

Appropriation : Php 11,000,000.00

Total Project Duration : 98 CD

Source of Fund : _____

No. of Pre-determined : 20 CD

Unworkable Days : 9 CD

DESCRIPTION OF WORKS TO BE DONE	QUANTITY	UNIT	AS SUBMITTED		AS EVALUATED	
			% TOTAL	TOTAL DIRECT COST	% TOTAL	TOTAL DIRECT COST
Part A: Facilities for the Engineer			0.00	-		
B: Other General Requirements			2.37	204,858.74		
C: Earthworks			11.36	980,728.87		
D: Subbase and Base Course			30.99	2,676,365.60		
E: Surface Courses			52.54	4,537,740.12		
F: Bridge Construction			0.00	-		
G: Drainage and Slope Protection Structures			1.26	108,477.06		
H: Miscellaneous Structures			1.48	128,115.86		
Total			100.00	8,636,286.25		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	132,965.70	
2. Materials	6,871,393.74	
3. Rental of Equipment	1,631,926.81	
4. Provisional Sum / Daywork		
5. OCM and Profit	1,702,608.63	
6. Value Added Tax	516,944.74	
7. EAO, %	108,558.40	
8. RROW Acquisition	-	
9. Physical Reserved (Contingency)	35,601.98	
10. TOTAL ESTIMATED COST	11,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	8,636,286.25	
B. OCM and Profit	1,702,608.63	
C. Value Added Tax	516,944.74	
D. Total Construction Cost	10,855,839.62	
E. Eng'g & Administrative Overhead, %	108,558.40	
F. RROW Acquisition	-	
G. Physical Reserved (Contingency)	35,601.98	
H. TOTAL ESTIMATED COST	11,000,000.00	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II
DPWH RO9

Checked/Submitted by:

PIO MARIO T. LASA TESANTOS

Engineer III
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division
DPWH RO9

Approval:

Recommending Approval:

KHADAFY D. TANGGOL

Assistant Regional Director
DPWH RO9

Approved:

CAYAMOMBAD D. DIA, CESO IV

Regional Director
DPWH RO9



DPWH REGIONAL OFFICE IX

CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN

MALUSO, BASILAN

APPROVED BUDGET FOR THE CONTRACT

Contract Duration :

98

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	-	-	-	-	-	
PART B	OTHER GENERAL REQUIREMENTS	AS EVALUATED						
		AS SUBMITTED	204,858.74	16,323.13	11,059.09	27,382.23	232,240.96	
PART C	EARTHWORKS	AS EVALUATED						
		AS SUBMITTED	980,728.87	196,145.77	58,843.73	254,989.51	1,235,718.37	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED						
		AS SUBMITTED	2,676,365.60	535,273.12	160,581.94	695,855.06	3,372,220.66	
PART E	SURFACE COURSE	AS EVALUATED						
		AS SUBMITTED	4,537,740.12	907,548.02	272,264.41	1,179,812.43	5,717,552.55	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED						
		AS SUBMITTED	-	-	-	-	-	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED						
		AS SUBMITTED	108,477.06	21,695.41	6,508.62	28,204.04	136,681.10	
PART H	MISCELLANEOUS STRUCTURES	AS EVALUATED						
		AS SUBMITTED	128,115.86	25,623.17	7,686.95	33,310.12	161,425.98	
TOTAL		AS EVALUATED						
		AS SUBMITTED	8,636,286.25	1,702,608.63	516,944.74	2,219,553.38	10,855,839.62	

Preparation and Submission:

Prepared by:

Checked/Submitted by:

Evaluation:

Reviewed as to Unit Cost:

Approval:

Recommending Approval:

Approved:

JOSEPHINE B. REINGQUIJO

Engineer II

DPWH RO9

PIO MARIO T. CASTESANTOS

Engineer III

DPWH RO9

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

DPWH RO9

KHADAFFY D. TANGGOL
Assistant Regional Director

DPWH RO9

CAYAMOMBAO D. DIA, CESOW
Regional Director

DPWH RO9



DPWH REGIONAL OFFICE IX

CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

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										
	TOTAL OF PART A	AS EVALUATED									
		AS SUBMITTED									
PART B	OTHER GENERAL REQUIREMENTS										
B.5	Project Billboard/Signboard	AS EVALUATED									
		AS SUBMITTED	4.00	units	19,167.36	20%	3,833.47	1,150.04	4,983.51	24,150.87	6,037.72
B.4 (1)	Construction Survey and Staking	AS EVALUATED									
		AS SUBMITTED	0.48	km.	14,329.30	20%	2,865.86	859.76	3,725.62	18,054.91	37,614.40
B.7	Occupational Safety and Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	86,547.52	8%	6,923.80	4,673.57	11,597.37	98,144.89	98,144.89
B.8(2)	Traffic Management	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	33,750.00	8%	2,700.00	1,822.50	4,522.50	38,272.50	38,272.50
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	51,064.56	0%	-	2,553.23	2,553.23	53,617.79	53,617.79
	TOTAL OF PART B	AS EVALUATED									
		AS SUBMITTED			204,858.74		16,323.13	11,059.09	27,382.23	232,240.96	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II
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Evaluation:

Reviewed as to Unit Cost:

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

DPWH RO9

PART C	EARTHWORKS									
102(2)	Surplus Common Excavation	AS EVALUATED								
		AS SUBMITTED	5,307.00	cu.m.	758,036.84	20%	151,607.37	45,482.21	197,089.58	955,126.42 179.97
103(3)	Foundation Fill	AS EVALUATED								
		AS SUBMITTED	1.50	cu. m.	1,773.98	20%	354.80	106.44	461.24	2,235.22 1,490.15
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED								
		AS SUBMITTED	8.00	cu.m.	1,845.10	20%	369.02	110.71	479.73	2,324.83 290.60
104(1) a1	Embankment from Roadway Excavation	AS EVALUATED								
		AS SUBMITTED	689.50	cu.m.	159,541.25	20%	31,908.25	9,572.47	41,480.72	201,021.97 291.55
105(1)a	Subgrade Preparation	AS EVALUATED								
		AS SUBMITTED	3,708.00	sq.m.	59,531.69	20%	11,906.34	3,571.90	15,478.24	75,009.93 20.23
	TOTAL OF PART C	AS EVALUATED								
		AS SUBMITTED			980,728.87		196,145.77	58,843.73	254,989.51	1,235,718.37
PART D	SUBBASE AND BASE COURSE									
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED								
		AS SUBMITTED	1,189.50	cu. m.	2,676,365.60	20%	535,273.12	160,581.94	695,855.06	3,372,220.66 2,834.99
	TOTAL OF PART D	AS EVALUATED								
		AS SUBMITTED			2,676,365.60		535,273.12	160,581.94	695,855.06	3,372,220.66

Preparation and Submission:

Prepared by:

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Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

Off-Chief, Planning & Design Division
DPWH RO9

PART E	SURFACE COURSES										
311(1)c1	Portland Cement Concrete Pavement, 0.23m. Thk.	AS EVALUATED									
		AS SUBMITTED	2,692.50	sq. m.	4,537,740.12	20%	907,548.02	272,264.41	1,179,812.43	5,717,552.55	2,123.51
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			4,537,740.12		907,548.02	272,264.41	1,179,812.43	5,717,552.55	
PART F	BRIDGE CONSTRUCTION										
	TOTAL OF PART F	AS EVALUATED									
		AS SUBMITTED			-		-	-	-	-	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES										
500(1)b3	Pipe Culvert & Storm Drain, 910 mm dia.	AS EVALUATED									
		AS SUBMITTED	11.00	ln. m.	47,195.00	20%	9,439.00	2,831.70	12,270.70	59,465.70	5,405.97
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	4.00	cu. m.	16,389.32	20%	3,277.86	983.36	4,281.22	20,650.54	5,162.63
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	9.00	cu. m.	44,892.75	20%	8,978.55	2,693.56	11,672.11	56,564.86	6,284.98
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			108,477.06		21,695.41	6,508.62	28,204.04	136,681.10	
PART H	MISCELLANEOUS STRUCTURES										
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED									
		AS SUBMITTED	112.00	sq.m.	84,772.99	20%	16,954.60	5,086.38	22,040.98	106,813.97	953.70
612(2)	Reflectorized Thermoplastic Pavement Marking, Yellow	AS EVALUATED									
		AS SUBMITTED	52.50	sq.m.	43,342.86	20%	8,668.57	2,600.57	11,269.14	54,612.01	1,040.23
	TOTAL OF PART H	AS EVALUATED									
		AS SUBMITTED			128,115.86		25,623.17	7,686.95	33,310.12	161,425.98	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			8,636,286.25		1,702,608.63	516,944.74	2,219,553.38	10,855,839.62	

Preparation and Submission:

Prepared by:

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Checked/Submitted by:

PIO MARIO T. CASPESANTOS
Engineer III
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

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



CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

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			53			
24	Applicator Machine			54			
25	Kneading Machine			55			
26	Cutting Outfit		1	56			
27				57			
28				58			
29				59			
30				60			
	SUB-TOTAL				SUB-TOTAL		
				TOTAL			

CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN

MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description

: B.4(1) Construction Survey and Staking

Quantity : 0.48
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)
A.1	Labor				
	For Fieldworks:				0.00
	Geodetic Engineer	1	27.00	104.16	2,812.42
	Skilled Laborers	1	27.00	62.86	1,697.22
	Laborers	2	27.00	48.44	2,615.76
	For Office Works:				
	Geodetic Engineer	1	80.00	104.16	8,333.10
	Skilled Laborers	1	80.00	62.86	5,028.80
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				20,487.30
	Sub - Total for A.2 - As Evaluated				
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	Equipment				
	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				23,187.30
	C.2 Total (A.2 + B.2) - As Evaluated				
	D.1 Output per hour - As Submitted				1.00
	D.2 Output per hour - As Evaluated				1.00
	E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				23,187.30
	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	45.00	5,175.00
	miscellaneous(5% of Materials)			317.40	317.40
	Sub - Total for F.1 - As Submitted				6,665.40
	Materials				
	Sub - Total for F.2 - As Evaluated				20,852.70
F.2	G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				
	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		3,582.32
	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		2,388.22
	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)		1,791.16
	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)		37,614.40
	K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by:

Checked/Reviewed by:

JOSEPHINE B. RINQUJO
Engineer I
DPWH RO9

JOSEPHINE B. RINQUJO
Engineer III
DPWH RO9

CONCRETING OF BRGY. MAMAHAYAHAY FMR. BRGY. MAHAYAHAY, MALUSO, BASILAN

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				
A.1	Const. Foreman	1	1.00	87.10	0.00
	Skilled Laborers	1	1.00	62.86	62.86
	Labors	2	1.00	48.44	96.88
	Sub - Total for A.1 - As Submitted				0.00
	Labor				246.84
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				246.84
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				246.84
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
F.1	Marine Plywood (3/16" thick, 4' x 8')	pc.	1.00	855.00	855.00
	Tarpaulin (4' x 8')	pc	1.00	800.00	800.00
	Assorted Sizes Lumber	bd ft.	50.00	56.00	2,800.00
	Assorted CW Nails	kg.	1.00	90.00	90.00
					-
	Sub - Total for F.1 - As Submitted				-
	Materials				4,545.00
F.2					
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				4,791.84
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		515.02
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		383.35
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)		287.51
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)		6,037.72
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by: 
JOSEPHINE B. RENGQUICO
Engineer II
DPWH ROC

Checked/Reviewed by: 
PIONARIO I. SANTOS
Engineer III
DPWH ROC

CONCRETING OF BRGY. MAHAYAHAY FWR, BRGY. MAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

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)
A.1	Labor				
	Safety Pencil/Marker	1	196.00	62.86	12,320.56
	First Aid Kit	1	784.00	48.44	37,976.96
					0.00
	Sub - Total for A.1 - As Submitted				50,297.52
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
B.2	Equipment				
	Sub - Total for B.1 - As Submitted				
C.1	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				50,297.52
	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				50,297.52
	Direct Unit Cost (C.2 + D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Rubber Boots/Men Long w/ Steel Toe, Black	pc.	15.00	500.00	7,500.00
	Working Gloves (Maong Materials)	pc	15.00	50.00	750.00
	Rain Coats (Reinforced, Hip)	bd.fl.	15.00	300.00	4,500.00
F.2	First Aid Kit (Complete medicines & tools)	set	1.00	2,500.00	2,500.00
	Barricades/Signboards	pcs.	15.00	1,400.00	21,000.00
	Sub - Total for F.1 - As Submitted				
	Materials				36,250.00
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				86,547.52
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		10,385.70
	H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		
I.1	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		6,923.80
	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)		5,192.85
	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)		109,948.88
	K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by:

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Engineer II
DRWH R04

Checked/Reviewed by:

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Engineer III
DRWH R09

CONCRETING OF BRGY. 1, MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : B.8(2) Traffic Management

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
			62.86	0.00
			48.44	0.00
Sub - Total for A.1 - As Submitted				0.00
A.2				
Labor				
Sub - Total for A.2 - As Evaluated				
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				-
F.1				
Materials				
Advance Warning Sign	pc.	10.00	1,250.00	12,500.00
Speed Limit Sign	pc	4.00	1,250.00	5,000.00
Direction Sign	pc	4.00	1,250.00	5,000.00
Bollards	pcs.	30.00	375.00	11,250.00
Note:				-
(Rental Basis only for whole duration of the project)				-
Sub - Total for F.1 - As Submitted				33,750.00
F.2				
Materials				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				33,750.00
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		4,050.00
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		2,700.00
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)		2,025.00
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)		42,525.00
K.2				
Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by: 
JOSEPHINE B. RENSU
Engineer II
DRAWN ROL

Checked/Reviewed by: 
PIO MARIO T. L...
Engineer III
DRAWN ROL

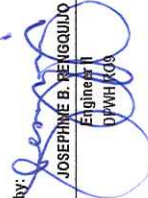
CONCRETING OF BRGY. MAHAYAHAY FMR. BRGY. MAHAYAHAY, MALUSO, BASILAN
MALUSO BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 1.00
Unit of Measurement : I.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					
A.2	Labor				0.00
					0.00
Sub - Total for A.2 - As Evaluated					
B.1	Equipment				
	Low Bed Trailer	1	12.00	4,255.38	51,064.56
					-
Sub - Total for B.1 - As Submitted					
B.2	Equipment				51,064.56
Sub - Total for B.2 - As Evaluated					
C.1	Total (A.1 + B.1) - As Submitted				51,064.56
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				51,064.56
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				
					-
Sub - Total for F.2 - As Evaluated					
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				51,064.56
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	6,127.75
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	4,085.16
I.2	Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
J.1	Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	3,063.87
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)	64,341.35
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by: 
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DPWH RO9

Checked/Reviewed by: 
PIO MARIO T. LACERANTOSA
Engineer III
DPWH RO9

CONCRETING OF BRGY. 1, MAHAYAHAY FMR BRGY. MAHAYAHAY, MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 5,307.00
Unit of Measurement : cu.m.
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				
	Constl. Foreman	1	1.00	87.10	87.10
	Labovers	2	1.00	48.44	96.88
	Sub - Total for A.1 - As Submitted				184.98
A.2	Labor				
	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	2	1.00	1,420.00	2,840.00
	Sub - Total for B.1 - As Submitted				8,385.25
	Equipment				
B.2	Sub - Total for B.2 - As Evaluated				
	Sub - Total for B.2 - As Evaluated				8,570.23
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				60.00
D.2	Output per hour - As Evaluated				60.00
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				142.84
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				142.84
	Direct Unit Cost (E.1 + F.1) - As Submitted				
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	17.14
	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	
				10% / 8% of G.1	11.43
				10% / 8% of G.2	
I.1	Contractor's Profit (CP) - As Evaluated			5% of (G.1 + H.1 + I.1)	8.57
	Value Added Tax (VAT) - As Submitted			5% of (G.2 + H.2 + I.2)	
	Value Added Tax (VAT) - As Evaluated			(G.1 + H.1 + I.1 + J.1)	179.97
	Total Unit Cost - As Submitted			(G.2 + H.2 + I.2 + J.2)	
	Total Unit Cost - As Evaluated				

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DPWH RO9

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Engineer III
DPWH RO9

CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN

0

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description

: 103(3) Foundation Fill

Quantity : 1.50

Unit of Measurement : cu.m.

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	87.10	87.10
	Laborers	4	1.00	48.44	193.76
	Sub - Total for A.1 - As Submitted				281.86
	Labor				
A.2					
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Plate Compactor	1	1.00	123.00	123.00
	Water Truck	1	0.01	2,450.00	24.50
	Minor Tools (10 % of Labor)			2.82	2.82
	Sub - Total for B.1 - As Submitted				-
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				150.32
C.1	Total (A.1 + B.1) - As Submitted				432.18
	Total (A.2 + B.2) - As Evaluated				-
	Output per hour - As Submitted				1.25
	Output per hour - As Evaluated				1.25
	Direct Unit Cost (C.1 + D.1) - As Submitted				345.74
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Materials				
	Filling Materials	cu.m.	1.15	727.75	836.91
					-
					-
					-
F.2	Sub - Total for F.1 - As Submitted				836.91
	Materials				
	Sub - Total for F.2 - As Evaluated				1,182.66
	Direct Unit Cost (E.1 + F.1) - As Submitted				-
	Direct Unit Cost (E.2 + F.2) - As Evaluated				141.92
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	-
	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	-
	Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	94.61
	Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
	Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + J.1)	70.96
K.1	Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + J.2)	-
	Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	1,490.19
	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

Checked/Reviewed by:

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DPWH RO9

PIO MARO I. SANTOS
Engineer III
DPWH RO9

CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 103/61a Pipe Culvert and Drain Excavation

Quantity : 8.00
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				
	Constl. Foreman	1	1.00	87.10	87.10
	Laborers	3	1.00	48.44	145.32
	Sub - Total for A.1 - As Submitted				233.42
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)			2.33	2.33
B.2	Sub - Total for B.1 - As Submitted				4,379.33
	Equipment				
	Sub - Total for B.2 - As Evaluated				4,612.75
F.1	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				20.00
	D.2 Output per hour - As Evaluated				20.00
	E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				230.84
	E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				-
					-
					-
F.2	Sub - Total for F.1 - As Submitted				-
	Materials				
	Sub - Total for F.2 - As Evaluated				230.84
	G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				-
	G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				27.68
	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		18.45
	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		13.84
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		-
	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		280.60
	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. RENGQUILLO
Engineer III
BWH RO9

Checked/Reviewed by:  PIO MARIO I. REYES SANTOS
Engineer III
BWH RO9

CONCRETING OF BRGY. MAHAYAHAY FMR. BRGY. MAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 659.50
Unit of Measurement : cu.m.
Output per hour - As Submitted : 50.00
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Excavation Work:				
	Const. Foreman	1	0.83	87.10	72.29
	Laborers	2	0.83	48.44	80.41
	Spreading & Compaction:				
	Const. Foreman	1	1.00	87.10	87.10
B.1	Laborers	2	1.00	48.44	96.88
	Sub - Total for A.1 - As Submitted				337.68
	Labor				
	Sub - Total for A.2 - As Evaluated				
B.2	Equipment				
	Excavation Work:				
	Bulldozer	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
	Spreading & Compaction:				
C.1	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				11,231.66
	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.2	Total (A.1 + B.1) - As Submitted				11,569.34
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				50.00
	Output per hour - As Evaluated				50.00
	Direct Unit Cost (C.1 + D.1) - As Submitted				231.39
	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				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				231.39
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	27.77
	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	
	Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	18.51
	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)	13.88
	Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	
	Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	281.55
	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	

Prepared by:  JOSEPHINE B. RENGALIO
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CONCRETING OF BRGY. MAHAHAYAHAY FMR, BRGY. MAHAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 3,708.00
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	87.10	87.10
Labors	2	1.00	48.44	96.88
				0.00
				0.00
Sub - Total for A.1 - As Submitted				184.98
Labor				
Sub - Total for A.2 - As Evaluated				
Equipment				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,946.00	1,946.00
Water Truck	1	0.25	2,450.00	612.50
Sub - Total for B.1 - As Submitted				4,631.50
Equipment				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				4,816.48
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				16.05
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
Sub - Total for F.1 - As Submitted				
Materials				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				16.05
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	1.53
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)	0.99
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)	20.23
K.2 Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	

Prepared by:  JOSEPHINE B. BENGQUIJO
Engineer IV
JPWH K20

Checked/Reviewed by:  PIO MARIO T. SANTOS
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JPWH R09

CONCRETING OF BRGY. MALUSO, BASILAN
MALUSO, BASILAN

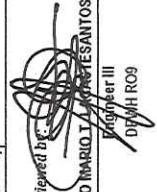
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 1,189.50
Unit of Measurement : cu.m.
Output per hour - As Submitted : 50.00
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	87.10	87.10
	Laborers	2	1.00	48.44	96.88
A.2	Sub - Total for A.1 - As Submitted				184.98
	Labor				
B.1	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
B.2	Water Truck	1	0.25	2,450.00	612.50
C.1	Sub - Total for B.1 - As Submitted				4,631.50
	Equipment				
C.2	Sub - Total for B.2 - As Evaluated				4,816.48
	Total (A.1 + B.1) - As Submitted				
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				50.00
D.1	Output per hour - As Evaluated				50.00
	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				98.33
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials				
	Aggregate Subbase Course	cu.m.	1.15	1,872.75	2,153.66
	(w/ 15% shrinkage)				
F.2	Sub - Total for F.1 - As Submitted				2,153.66
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				2,248.99
	Direct Unit Cost (E.1 + F.1) - As Submitted				
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				270.00
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
	Contractor's Profit (CP) - As Submitted				180.00
	Contractor's Profit (CP) - As Evaluated				
	Value Added Tax (VAT) - As Submitted				135.00
J.1	Value Added Tax (VAT) - As Evaluated				
	Total Unit Cost - As Submitted				2,834.99
	Total Unit Cost - As Evaluated				

Prepared by:  JOSEPHINE B. RENGUIJO
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DPWH RO9

Checked/Reviewed by:  PIO MARIO I. MONTESANTOS
Engineer III
DPWH RO9

CONCRETING OF BRGY. MAHAHAYAHAY FMR, BRGY. MAHAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 311(1)c1 Portland Cement Concrete Pavement, 0.23m. Thk.

Quantity : 2,692.56
Unit of Measurement : sq.m.
Output per hour - As Submitted : 70.00
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Constl. Foreman	1	1.00	87.10	87.10
	Skilled Laborers	4	1.00	62.86	251.44
	Laborers	12	1.00	48.44	581.28
	Sub - Total for A.1 - As Submitted				920.82
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	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)				46.04
	Sub - Total for B.1 - As Submitted				12,042.65
	Equipment				
	Sub - Total for B.2 - As Evaluated				12,063.47
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				70.00
	D.2 Output per hour - As Evaluated				70.00
	E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				185.19
	E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials				
	Reinforcing Steel Bar	kg.	0.43	47.00	20.21
	Curing Compound	l.	0.29	35.00	10.15
	Asphalt Sealant	l.	0.12	75.00	9.00
	Steel Forms	m	0.46	52.00	23.92
	Fine Aggregates	cum.	0.1265	2,572.75	325.45
	Coarse Aggregates	cum.	0.23	1,872.75	430.73
	Portland Cement	bag	2.19	310.00	678.90
	Concrete Saw (Diamond Blade 14" dia.)	pc.	0.00015	8,000.00	1.20
	Pipe Sleeve, 1" dia.	m	0.0071	55.00	0.39
	Grease/Tar	l.	0.0087	21.00	0.18
	Sub - Total for F.1 - As Submitted				1,500.13
	Materials				
F.2	Sub - Total for F.2 - As Evaluated				
	G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				1,685.33
	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		203.24
	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		134.83
	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)		101.12
	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)		2,123.51
	K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by: 
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DPWH RO9

Checked/Reviewed by: 
PIO MARIO T. REYES SANTOS
Engineer III
DPWH RO9

CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY MAHAYAHAY, MALUSO, BASILAN
MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description

: 612(1) Reflectized Pavement Markings, White

Quantity : 112.00
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)
Labor				
Const. Foreman	1	1.00	87.10	87.10
Skilled Laborers	2	1.00	62.86	125.72
Laborers	6	1.00	48.44	290.64
				0.00
Sub - Total for A.1 - As Submitted				417.36
Labor				
Sub - Total for A.2 - As Evaluated				
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)				41.74
Sub - Total for B.1 - As Submitted				1,534.99
Equipment				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				1,952.35
C.2 Total (A.2 + B.2) - As Evaluated				-
D.1 Output per hour - As Submitted				25.00
D.2 Output per hour - As Evaluated				25.00
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				78.09
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
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	168.00	20.16
LPG(50 kg)	cyf	0.004	4,250.00	17.00
LPG (12 kg)	cyf	0.002	1,020.00	2.04
Calsumine	kg.	0.125	30.00	3.75
				-
Misc. (5% of Materials Cost)				32.03
				-
Sub - Total for F.1 - As Submitted				678.81
Materials				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				758.90
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				90.83
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
I.1 Contractor's Profit (CP) - As Submitted				60.55
I.2 Contractor's Profit (CP) - As Evaluated				-
J.1 Value Added Tax (VAT) - As Submitted				45.41
J.2 Value Added Tax (VAT) - As Evaluated				-
K.1 Total Unit Cost - As Submitted				953.70
K.2 Total Unit Cost - As Evaluated				-

Prepared by:

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Engineer III
DPWH RO9

Checked/Reviewed by:

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DPWH RO9

CONCRETING OF BRGY. MALUSO, BASILAN
MALUSO, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 012(2) ReflectORIZED Pavement Markings, Yellow

Quantity : 52.50
Unit of Measurement : sq.m.
Output per hour - As Submitted : 25.00
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	87.10	87.10
	Skilled laborers	2	1.00	62.86	125.72
	laborers	6	1.00	48.44	290.64
					0.00
	Sub - Total for A.1 - As Submitted				417.38
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	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)				41.74
	Sub - Total for B.1 - As Submitted				1,534.99
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				1,952.35
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				25.00
D.2	Output per hour - As Evaluated				25.00
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				78.09
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Thermoplastic Paint Yellow	bag	0.325	1,800.00	585.00
	Glass Beads	bag	0.033	2,500.00	82.50
	Primer	l.	0.120	180.00	21.60
	LPG(50 kg)	cy	0.004	4,250.00	17.00
	LPG (12 kg)	cy	0.002	1,020.00	2.04
	Calsimine	kg.	0.125	30.00	3.75
					-
					-
	Misc. (5% of Materials Cost)				35.59
					-
	Sub - Total for F.1 - As Submitted				747.48
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				825.58
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
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	99.07
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	66.05
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)	49.53
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)	1,040.23
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

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Engineer III
DPWH RDO

Checked/Reviewed by:

PIO MARIO T. SANTOS
Engineer III
DPWH RDO

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 KPH.
 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 kg.
 Unit weight of Fine Aggregates : 1,640.00 kg/m³
 Unit weight of Coarse Aggregates : 1,534.00 kg/m³
 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 trips for Dumptruck per day = $\frac{8 \times 60.00}{22.50}$ = 21.33 say 21.33 trips
 Dumptruck daily output = 10 x 21.33 = 213.33 cu.m.
 Using (4) Dumptrucks = 4 x 213.33 = 853.33 cu.m.

1. No. of days for Dumptrucks = $\frac{1,000.00}{853.33}$ = 1.17 say 1.17 days

EQUIPMENT USED : (2009 ACEL RATES)

4 - Unit Dumptruck @ P 11,360.00 /day x 1.17 days = P 53,250.00
 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
 Labor P
 Materials P

SABELE CITY CITY DEO (based on 2019 3RD Quarter CMPD)

	Ave. Hauling Distance	Unit Cost per cu.m./km.	Hauling Cost per cu.m.	Unit Price	Unit Cost per cu.m.
Cost of Fine Aggregates:					
	35.00	x 10.65	= 372.75	+ 2,200.00	= 2,572.75
Cost of Coarse Aggregates:					
	35.00	x 10.65	= 372.75	+ 1,500.00	= 1,872.75
Cost of Item 200 Materials:					
	35.00	x 10.65	= 372.75	+ 1,500.00	= 1,872.75
Cost of Item 201 Materials:					
	35.00	x 10.65	= 372.75	+ 1,500.00	= 1,872.75
Cost of Item 300 Materials:					
	35.00	x 10.65	= 372.75	+ 1,400.00	= 1,772.75
Cost of Boulders:					
	35.00	x 10.65	= 372.75	+ 1,305.00	= 1,677.75
Cost of Embankmen, Common Borrow:					
	5.00	x 10.65	= 53.25	+ 336.00	= 389.25
Cost of Embankmen, Selected Borrow:					
	35.00	x 10.65	= 372.75	+ 355.00	= 727.75

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
Grouled 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
Isabela City DEO	35.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :
say 35.00 km.

Delivery Charge = P 0.120 x 35.00
= P **4.20** / 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	=	$\frac{35.00 \times 60}{30.00}$	= 70.00 mins.
Unloaded running	=	$\frac{35.00 \times 60}{40.00}$	= 52.50 mins.
Loading and Unloading	:	45.00	mins.
Capacity of Dumptruck	:	8.00	cu.m.
	:	500.00	bags

Total Cycle time : 167.50 mins.
 No. of trips for Dumptruck per day = $\frac{8.0 \times 60.00}{167.50} = 2.87$ say 2.87 trip

Dumptruck daily output = $500 \times 2.87 = 1,432.84$ cu.m.
 Using (4) Dumptrucks = $4 \times 1432.84 = 5,731.34$ cu.m.

No. of days for Delivery Truck = $\frac{78,110.00}{5,731.34} = 13.63$ say 13.63 days

No. of days for Labor, for unloading = complimentary to D. Truck days = 13.63 days

DELIVERY COST :

78,110.00 - Bags, Portland Cement @ P 4.20 / bag = P 328,062.00
Sub - Total P 328,062.00

LABOR :

1 - Foreman @ P 696.80 /day x 13.63 days = P 9,496.39
 10 - Laborers, unloading @ P 387.52 /day x 13.63 days = P 52,813.43
Sub - Total P 62,309.81

MATERIALS :

78,110.00 - Bags, Portland Cement @ P 305.00 / bag = P 23,823,550.00
 (Pick-Up Price) **Sub - Total P 23,823,550.00**

Estimated Quantity 78,110.00 Bags

Unit Cost P 310.00 / Bag, say P 310.00 / Bag

Grand Total P 24,213,921.81

Delivery Cost P 328,062.00

Labor P 62,309.81

Materials P 23,823,550.00

CONCRETING OF BRGY. MAHAYAHAY FMR, BRGY. MAHAYAHAY, MALUSO, BASILAN

Station Limits

Beginning of Section 1: Sta. 0+000.00
End of Section 1: Sta. 0+480.00

Net Length:

480.00 In.m.

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
PART C - EARTHWORKS				
102(2)	Surplus Common Excavation	cu.m.	5,307.00	For disposal
103(3)	Foundation Fill	cu.m.	1.50	For RCPC bedding
103(6a)	Pipe culverts and drain excavation	cu.m.	8.00	For RCPC excavation
104(1a)	Embankment from roadway excavation	cu.m.	689.50	Compacted volume, common soil
105(1a)	Subgrade Preparation	sq.m.	3,708.00	Common material, variable width
PART D - SUBBASE AND BASE COURSE				
200(1)	Aggregate Subbase Course	cu.m.	1,189.50	0.20 m. thick, compacted volume
PART E - SURFACE COURSES				
311(1a)	Portland Cement Concrete Pavement	sq.m.	2,692.50	0.15 m. thk, width = 5.00 m. (Farm-To-Market Road)
PART F - BRIDGE CONSTRUCTION				
PART G - DRAINAGE AND SLOPE PROTECTION WORKS				
500(1b3)	Pipe Culverts, 910 mm dia.	In.m.	11.00	Class IV, Wall B, AASHTO M - 170 - 85
505(1a)	Grouted Riprap	cu.m.	4.00	Class A, for headwall apron & slope protection
506(1)	Stone Masonry	cu.m.	9.00	for headwall, wingwall and catch basin
PART H - MISCELLANEOUS STRUCTURES				
612(1)	ReflectORIZED Thermoplastic Pavement Markings White	sq.m.	112.00	For edge line and centerline; pedestrian crossing and stop lines included
612(2)	ReflectORIZED Thermoplastic Pavement Markings Yellow	sq.m.	52.50	For barrier lines

P.111M - yafa ver5

Prepared by:

Checked by:


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Chief, Highway Design Section