



PROGRAM OF WORKS/BUDGET COST

Project : **CONCRETING OF BRGY. SUCUBAN FMR , BRGY. SUCUBAN, OMAR, SULU**

Project ID : _____

Location : **OMAR, SULU**

Station Limits : **KM 00 + 000.00 - KM 00 + 547**

Appropriation : **Php 15,000,000.00**

Source of Fund : **CY 2019 REGULAR INFRA**

Net Length : (a) Road **547.00** In.m. = **1.094** lane.km.
 (b) Bridge _____
 (c) Others _____

Target Start Date : _____

Total Project Duration : **109** CD

No. of Pre-determined : **18** 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			3.05	362,453.78		
C: Earthworks			4.77	566,342.55		
D: Subbase and Base Course			46.91	5,574,392.95		
E: Surface Courses			43.04	5,115,099.37		
F: Bridge Construction			0.00	-		
G: Drainage and Slope Protection Structures			1.27	150,532.62		
H: Miscellaneous Structures			0.97	114,866.84		
Total			100.00	11,883,688.11		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	130,515.13	
2. Materials	10,484,797.94	
3. Rental of Equipment	1,268,375.05	
4. Provisional Sum / Daywork		
5. OCM and Profit	2,330,997.23	
6. Value Added Tax	710,734.27	
7. EAO, %	74,580.40	
8. RROW Acquisition	(0.00)	
9. Physical Reserved (Contingency)		
10. TOTAL ESTIMATED COST	15,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	11,883,688.11	
B. OCM and Profit	2,330,997.23	
C. Value Added Tax	710,734.27	
D. Total Construction Cost	14,925,419.60	
E. Eng'g & Administrative Overhead, %	74,580.40	
F. RROW Acquisition	(0.00)	
G. Physical Reserved (Contingency)		
H. TOTAL ESTIMATED COST	15,000,000.00	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO
 Engineer II
 DPWH RO9

Checked/Submitted by:

PIO MARIO T. LACASTESANTOS
 Engineer III
 DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

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

Approval:

Recommending Approval:

KHADAFY B. TANGGOL
 Assistant Regional Director
 DPWH RO9

Approved:

CAYAMOMBABO D. DIA, CESO IV
 Regional Director
 DPWH RO9



DPWH REGIONAL OFFICE IX

CONCRETING OF BRGY. SUCUBAN FMR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU

APPROVED BUDGET FOR THE CONTRACT

Contract Duration :

109

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	362,453.78		26,750.36	19,460.21	46,210.57	408,664.34	
PART C	EARTHWORKS	AS EVALUATED							
		AS SUBMITTED	566,342.55		113,268.51	33,980.55	147,249.06	713,591.61	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED							
		AS SUBMITTED	5,574,392.95		1,114,878.59	334,463.58	1,449,342.17	7,023,735.12	
PART E	SURFACE COURSE	AS EVALUATED							
		AS SUBMITTED	5,115,099.37		1,023,019.87	306,905.96	1,329,925.84	6,445,025.21	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED							
		AS SUBMITTED	-		-	-	-	-	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED							
		AS SUBMITTED	150,532.62		30,106.52	9,031.96	39,138.48	189,671.10	
PART H	MISCELLANEOUS STRUCTURES	AS EVALUATED							
		AS SUBMITTED	114,866.84		22,973.37	6,892.01	29,865.38	144,732.22	
TOTAL		AS EVALUATED							
		AS SUBMITTED	11,883,688.11		2,330,997.23	710,734.27	3,041,731.49	14,925,419.60	

Preparation and Submission:

Prepared by:

Checked/Submitted by:

Evaluation:

Reviewed as to Unit Cost:

Approval:

Recommending Approval:

Approved:

JOSEPHINE B. RENGQUIJO

Engineer II

DPWH RO9

PIO MARIO T. LACASTESANTOS

Engineer III

DPWH RO9

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division

DPWH RO9

KHADAFK D. TANGGOL

Assistant Regional Director

DPWH RO9

CAYAMOMBABO D. DIA, CESO IV

Regional Director

DPWH RO9



DPWH REGIONAL OFFICE IX
CONCRETING OF BRGY. SUCUBAN FMR , BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU

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	10,675.36	20%	2,135.07	640.52	2,775.59	13,450.95	3,362.74
B.4 (1)	Construction Survey and Staking	AS EVALUATED									
		AS SUBMITTED	0.55	km.	15,999.18	20%	3,199.84	959.95	4,159.79	20,158.96	36,853.68
B.7	Occupational Safety and Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	267,693.16	8%	21,415.45	14,455.43	35,870.88	303,564.04	303,564.04
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	68,086.08	0%	-	3,404.30	3,404.30	71,490.38	71,490.38
	TOTAL OF PART B	AS EVALUATED									
		AS SUBMITTED			362,453.78		26,750.36	19,460.21	46,210.57	408,664.34	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO
Engineer II
DPWH RO9

Checked/Submitted by:

PIO MARIO T. LACASTESANTOS
Engineer III
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURINO E. TORREFRANCA
OIC-Chief, Planning & Design Division
DPWH RO9

PART C	EARTHWORKS										
102(2)	Surplus Common Excavation	AS EVALUATED									
		AS SUBMITTED	3,249.00	cu.m.	471,668.70	20%	94,333.74	28,300.12	122,633.86	594,302.56	182.92
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	1.00	cu. m.	3,231.70	20%	646.34	193.90	840.24	4,071.94	4,071.94
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	18.00	cu.m.	4,151.48	20%	830.30	249.09	1,079.38	5,230.86	290.60
105(1)a	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	5,437.00	sq.m.	87,290.67	20%	17,458.13	5,237.44	22,695.57	109,986.25	20.23
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			566,342.55		113,268.51	33,980.55	147,249.06	713,591.61	
PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED									
		AS SUBMITTED	1,723.00	cu. m.	5,574,392.95	20%	1,114,878.59	334,463.58	1,449,342.17	7,023,735.12	4,076.46
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED			5,574,392.95		1,114,878.59	334,463.58	1,449,342.17	7,023,735.12	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO
Engineer II
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DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO G. TORREFRANCA
OIC-Chief, Planning & Design Division
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PART E	SURFACE COURSES										
311(1)c1	Portland Cement Concrete Pavement, 0.23m. Thk.	AS EVALUATED									
		AS SUBMITTED	2,735.00	sq. m.	5,115,099.37	20%	1,023,019.87	306,905.96	1,329,925.84	6,445,025.21	2,356.50
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			5,115,099.37		1,023,019.87	306,905.96	1,329,925.84	6,445,025.21	
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	10.00	ln. m.	43,099.62	20%	8,619.92	2,585.98	11,205.90	54,305.52	5,430.55
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	2.00	cu. m.	11,878.70	20%	2,375.74	712.72	3,088.46	14,967.16	7,483.58
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	14.00	cu. m.	95,554.30	20%	19,110.86	5,733.26	24,844.12	120,398.42	8,599.89
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			150,532.62		30,106.52	9,031.96	39,138.48	189,671.10	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

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Engineer III
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Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

Off. Chief, Planning & Design Division
DPWH RO9

PART H	MISCELLANEOUS STRUCTURES										
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED									
		AS SUBMITTED	131.00	sq.m.	99,837.84	20%	19,967.57	5,990.27	25,957.84	125,795.68	960.27
612(2)	Reflectorized Thermoplastic Pavement Marking, Yellow	AS EVALUATED									
		AS SUBMITTED	18.00	sq.m.	15,029.00	20%	3,005.80	901.74	3,907.54	18,936.54	1,052.03
	TOTAL OF PART H	AS EVALUATED									
		AS SUBMITTED			114,866.84		22,973.37	6,892.01	29,865.38	144,732.22	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			11,883,688.11		2,330,997.23	710,734.27	3,041,731.49	14,925,419.60	

Preparation and Submission:

Prepared by:

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Engineer II
DPWH RO9

Checked/Submitted by:

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Engineer III
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Evaluation:

Reviewed as to Unit Cost:

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



CONCRETING OF BRGY. SUCUBAN FMR , BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU

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	Air Compressor		
2	Hydraulic Telescopic Boom Truck			32	Drilling Machine Dry Type		
3	Payloader (LX80-2C)	1.50 m ³ /1.95 yd ³	2	33	Pull Out Tester		
4	Motorized Road Grader (G710A)		2	34	Grouting Machine		
5	Vibratory Roller (SD100DC)	10mt	2	35	Power Spray		
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	4-6ft ³ /min	2	40			
11	Transit Mixer (All Models)	5-6 ya ³	4	41			
12	Dump Truck (All Models)	12 yd ³	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		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			

CONCRETING OF BRGY. SUCUBAN FMIR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 0.55
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 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
A.1				
For Office Works:				
Geodetic Engineer	1	80.00	104.16	8,333.10
Skilled Laborers	1	80.00	62.86	5,028.80
				0.00
Sub - Total for A.1 - As Submitted				20,467.30
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
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				23,167.30
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				23,167.30
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
				-
F.1				
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				29,248.95
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	3,509.87
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	2,339.92
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)	1,754.94
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)	36,653.68
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RABIGUANO
Engineer II
DPWH RD9

Checked/Reviewed by:

PIO MARIO J. SACASTA SANTOS
Engineer III
DPWH RD9

CONCRETING OF BRGY. SUCUBAN FMIR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
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)
A.1				
Labor				0.00
Const. Foreman	1	1.00	87.10	87.10
Skilled Laborers	1	1.00	62.86	62.86
Laborers	2	1.00	48.44	96.88
				0.00
Sub - Total for A.1 - As Submitted				246.84
A.2				
Labor				
Sub - Total for A.2 - As Evaluated				
B.1				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
				-
Sub - Total for B.1 - As Submitted				-
B.2				
Equipment				
Sub - Total for B.2 - As Evaluated				246.84
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				246.84
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1				
Materials	Unit	Quantity	Unit Cost	Amount (PHP)
				-
Machine Plywood (3/16" thk. 4' x 8')	pc.	1.00	432.00	432.00
Tapatin (4' x 8')	pc	1.00	1,250.00	1,250.00
Assorted Sizes lumber	bd.ft.	50.00	13.00	650.00
Assorted CW Nails	kg.	1.00	90.00	90.00
				-
Sub - Total for F.1 - As Submitted				2,422.00
F.2				
Materials				
Sub - Total for F.2 - As Evaluated				2,668.84
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2				
Direct Unit Cost (E.2 + F.2) - As Evaluated				320.26
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	-
I.1				
Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	213.51
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)	160.13
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)	3,862.74
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENISCUJO

Engineer II
DPWH-RO9

Checked/Reviewed by:

PIO MARIO T. LACAS-ESANTOS

Engineer III
DPWH-RO9

CONCRETING OF BRGY. SUCUBAN FMIR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

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

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1				
Labor				0.00
Safety Practitioner	1	218.00	62.86	13,703.48
First Aider	1	872.00	48.44	42,239.88
				0.00
				0.00
Sub - Total for A.1 - As Submitted				55,943.16
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
B.1				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
				-
				-
Sub - Total for B.1 - As Submitted				-
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				55,943.16
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				55,943.16
E.2				
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.	30.00	500.00	15,000.00
Working Gloves (Meong Materials)	pc	30.00	175.00	5,250.00
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	12,000.00	180,000.00
				-
Sub - Total for F.1 - As Submitted				211,750.00
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				267,693.16
G.2				
Direct Unit Cost (E.2 + F.2) - As Submitted				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	32,123.18
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	21,415.45
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)	16,061.59
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)	337,293.38
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:


JOSEPHINE B. RENANILLO
Engineer II
DPWH RO9

Checked/Reviewed by:


PIO MARIO T. LACORTESANTOS
Engineer III
DPWH RO9

CONCRETING OF BRGY. SUCUBAN FMR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

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

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1				
Labor				0.00
				0.00
Sub - Total for A.1 - As Submitted				0.00
A.2				
Sub - Total for A.2 - As Evaluated				
B.1				
Equipment				
Low Bed Trailer	2	8.00	4,255.38	68,086.08
				-
Sub - Total for B.1 - As Submitted				68,086.08
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				68,086.08
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				68,086.08
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				68,086.08
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	-
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)	3,404.30
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)	71,490.38
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

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DPWH-RO9

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PRO MARIO T. LACAYTESMOTOS
Engineer III
DPWH-RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 3,249.00
Unit of Measurement : cum.
Output per hour - As Submitted : 80.00
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
	Sub - Total for A.1 - As Submitted				184.98
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Excavator	1	1.00	3,379.00	3,379.00
	Payloader	1	1.00	1,733.00	1,733.00
	Dump Truck	3	1.00	1,420.00	4,260.00
	Backhoe	1	1.00	1,537.00	1,537.00
	Sub - Total for B.1 - As Submitted				11,428.90
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				11,613.88
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				80.00
D.2	Output per hour - As Evaluated				145.17
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				-
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				-
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				145.17
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				17.42
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	11.61
I.1	Contractor's Profit (CP) - As Submitted			10% / 8% of G.2	-
I.2	Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	8.71
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)	182.92
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:

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DPWH ROC9

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Engineer III
DPWH ROC9

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 1.00
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)
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
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Plate Compactor	1	1.00	123.00	123.00
	Water Truck	1	0.01	2,450.00	24.50
	Minor Tools(10 % of Labor)				2.82
B.2	Sub - Total for B.1 - As Submitted				150.32
	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				432.18
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				1.25
D.2	Output per hour - As Evaluated				1.25
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				345.74
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
	Materials				
	Filling Materials	cum.	1.15	2,509.52	2,885.95
					-
F.2	Sub - Total for F.1 - As Submitted				2,885.95
	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				3,231.70
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	387.80
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	288.54
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)	193.90
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)	4,071.94
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. LACAYESANTOS

Engineer III
DPWH RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 18.00
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
B.2	Sub - Total for B.1 - As Submitted				4,379.33
	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				4,612.75
	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				230.64
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				230.64
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	-
I.1	Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	18.45
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)	13.84
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)	290.60
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

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Checked/Reviewed by:

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Engineer II
BPMH R09

105(1)а

Subgrade Preparation

5,437.00
sq.m.
300.00

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
	Labor				
	Const. Foreman	1	1.00	87.10	87.10
A.1	Laborers	2	1.00	48.44	96.88
					0.00
					0.00
	Sub - Total for A.1 - As Submitted				184.98
	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
B.1	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				4,816.48
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				-
					-
F.1					-
					-
					-
					-
	Sub - Total for F.1 - As Submitted				-
	Materials				
F.2					
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				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		1.93
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)		0.86
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:

Checked/Reviewed by:

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DPMH R09

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Engineer III
DPWH/RO9

CONCRETING OF BRGY. SUCUBAN FMIR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 1,123.00
 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)
A.1				
Labor				
Const. Foreman	1	1.00	87.10	87.10
Laborers	2	1.00	48.44	96.88
				0.00
				0.00
Sub - Total for A.1 - As Submitted				184.98
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				4,816.48
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				96.33
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1				
Materials				
Aggregate Subbase Course	cu.m.	1.15	2,729.52	3,138.95
(w/ 15% shrinkage)				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				3,138.95
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				3,235.28
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		388.23
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		258.82
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)		194.12
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)		4,076.46
K.2				
Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

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 Engineer III
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CONCRETING OF BRGY. SUCUBAN FMR , BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 31(1)c1 Portland Cement Concrete Pavement, 0.23m. Thk.

Quantity : 2,735.00
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)
Labor				
Const. 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
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
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				12,042.55
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				12,963.47
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				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
Reinforcing Steel Bar	kg	0.43	49.00	21.07
Curing Compound	l	0.29	48.00	13.92
Asphalt Sealer	l	0.12	73.64	8.84
Steel Forms	m	0.46	60.00	27.60
Fine Aggregates	cum	0.1265	2,704.52	342.12
Coarse Aggregates	cum	0.23	2,604.52	599.04
Portland Cement	bag	2.19	305.00	667.95
Concrete Saw (Diamond Blade 14" dia.)	pc.	0.00015	8,000.00	1.20
Pipe Sleeve, 1" dia.	m	0.0071	253.33	1.87
Grease/Tar	l	0.0087	165.00	1.44
Sub - Total for F.1 - As Submitted				1,885.05
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				1,870.24
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	224.43
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	149.62
I.2 Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
J.1 Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	112.21
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)	2,356.50
K.2 Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RAYMUNDO
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DPWH RO9

Checked/Reviewed by:

PRO MARCO T. LACAS RESANTOS
Engineer III
DPWH RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

500(1)b3 Pipe Culvert & Storm Drain, 910 mm dia

Quantity	:	10.000
Unit of Measurement	:	ln.m.
Output per hour - As Submitted	:	
Output per hour - As Evaluated	:	2.000

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
	Labor				
	Const. Foreman	1	0.57	87.10	49.65
	Skilled Laborers	2	0.57	62.86	71.66
	Laborers	4	0.57	48.44	110.44
A.1					
					0.00
					0.00
	Sub - Total for A.1 - As Submitted				183.10
	Labor				
A.2					
	Sub - Total for A.2 - As Evaluated				
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
	Equipment				
	Backhoe	1	0.29	1,537.00	445.73
	Plate Compactor	1	0.29	123.00	35.67
					-
B.1					
					-
					-
					-
					-
	Minor Tools (10 % of Labor Cost)				18.31
	Sub - Total for B.1 - As Submitted				499.71
	Equipment				
B.2					
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				682.81
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				2.00
D.2	Output per hour - As Evaluated				2.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				341.41
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
	Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
	Materials				
					-
	Portland Cement	bag	1.08	305.00	329.40
	Fine Aggregates	cum.	0.061	2,704.52	164.98
F.1	RC Pipes	pc.	1.00	3,128.00	3,128.00
	Sand Bedding	cum.	0.128	2,704.52	346.16
					-
					-
					-
	Sub - Total for F.1 - As Submitted				3,968.56
	Materials				
F.2					
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				4,309.99
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		517.20
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		344.88
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)		258.66
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)		5,430.50
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II
DPWH RO9

Checked/Reviewed by:

PIO MARIO T. LACRUZ-SANTOS

Engineer III
DPMH RO9

DETAILED UNIT PRICE ANALYSIS (DUPA)

505(2)

Grouted Riprap, Class "A"

: 2.00
 : cu.m.
 : 1.25
 :
 :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
	Labor				
	Constr. Foreman	1	1.00	87.10	87.10
	Skilled Laborers	2	1.00	62.86	125.72
	Laborers	8	1.00	48.44	387.52
A.1					

JOSEPHINE B. RENGQUIJO

Engineer II
DPWH/RC9

PIO MARIO T. LACASTESANTOS

Engineer III
DPW/R09

CONCRETING OF BRGY. SUCUBAN FMR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 14.00
Unit of Measurement : cum.
Output per hour - As Submitted : 1.60
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	87.10	87.10
	Skilled Laborers	2	1.00	62.86	125.72
	Labors	8	1.00	48.44	387.52
					0.00
					0.00
	Sub - Total for A.1 - As Submitted				514.24
	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 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)				51.42
	Sub - Total for B.1 - As Submitted				499.62
	Equipment				
B.2					
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				1,013.86
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				1.60
D.2	Output per hour - As Evaluated				633.67
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)
F.1	Materials				
	Portland Cement	bag	5.50	305.00	1,677.50
	Fine Aggregates	cum.	0.300	2,704.52	811.35
	Gravel Fill	cum.	0.020	2,604.52	52.09
	50mm (2") PVC Pipe	m	0.30	110.00	33.00
	Filter Cloth	sq.m	0.015	178.00	2.64
	Boulders	cum.	1.05	3,384.52	3,553.75
					-
	Misc. (% of Materials Cost)				61.30
	Sub - Total for F.1 - As Submitted				6,191.64
	Materials				
F.2					
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				6,825.31
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		819.04
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		546.02
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)		409.52
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)		8,599.89
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by: 
JOSEPHINE B. REMIGULJO
Engineer II
DPWH-RO9

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

CONCRETING OF BRGY. SUCUBAN FINIR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 131.00
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)
A.1				
Labor				
Const. Foreman	1	1.00	87.10	87.10
Skilled Laborers	2	1.00	62.86	125.72
Labors	6	1.00	48.44	290.64
				0.00
Sub - Total for A.1 - As Submitted				417.36
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
B.1				
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				
B.2				
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				-
Materials	Unit	Quantity	Unit Cost	Amount (Php)
				-
Thermoplastic Paint White	bag	0.325	1,585.00	515.13
Class Beads	bag	0.033	2,500.00	82.50
Primer	l	0.120	200.00	24.00
LP-G(60 kg)	cf	0.004	4,500.00	18.00
LP-G (12 kg)	cf	0.002	1,000.00	2.16
Casurine	kg	0.125	30.00	3.75
				-
Misc.(5% of Materials Cost)				32.28
				-
				6.22
Sub - Total for F.1 - As Submitted				684.03
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				762.12
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	91.45
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	60.97
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)	45.73
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)	960.27
K.2 Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. REFRIGILIO
Engineer III
DPWH RO3

Checked/Reviewed by:

PIO MARIO T. LACASTESANTOS
Engineer III
DPWH RO3

CONCRETING OF BRGY. SUCUBAN FMIR, BRGY. SUCUBAN, OMAR, SULU
OMAR, SULU
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 612/2 ReflectORIZED Pavement Markings, Yellow

Quantity : 18.00
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)
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				417.36
Labor				
A.2				
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	1,800.00	585.00
Glass Beads	bag	0.033	2,500.00	82.50
Primer	l	0.120	245.00	29.40
LP.G(50 kg)	cf	0.004	4,500.00	18.00
LP.G (12 kg)	cf	0.002	1,080.00	2.16
Casurine	kg.	0.125	30.00	3.75
				-
Misc. (5% of Materials Cost)				36.04
				-
Sub - Total for F.1 - As Submitted				766.85
Materials				
Sub - Total for F.2 - As Evaluated				
F.2				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				834.94
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		100.19
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		66.80
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)		50.10
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)		1,052.03
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. REINGOLIO
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DPWH RO9

Checked/Reviewed by:

PRO MARIO T. JACINTO SANTOS
Engineer III
DPWH RO9

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the Coctabato supplier to Wharf 1 (Colabato)

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/m³
Unit weight of Coarse Aggregates : 1,534.00 kg/m³
Maximum Volume to be Carried per DT : 11.57 cu.m.

* Dumptruck (10 Wheelen) 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 : 10.00 mins.
Capacity of Dumptruck : 10.00 cu.m.
Total Cycle time : 27.50 mins.
No. of trips for Dumptruck = $\frac{10 \times 60.00}{27.50} = 21.82$ say 21.82 trips per day
Dumptruck daily output = 10 x 21.82 = 218.18 cu.m.
Using (4) Dumptrucks = 4 x 218.18 = 872.73 cu.m.

1. No. of days for Dumptrucks = $\frac{1,000.00}{872.73} = 1.15$ say 1.15 days
No. of days for Payloader = Complimentary to Dumptruck = 1.15 days

EQUIPMENT USED : (2009 ACEL RATES)

1 - Payloader @ P 13,864.00 /day x 1.15 days = P 15,885.83
4 - Unit Dumptruck @ P 11,360.00 /day x 1.15 days = P 52,066.67
Sub - Total P 67,952.50

Estimated Quantity 1,000.00 cu.m.

Unit Cost P 13.59 / cu. m./km. (Unit Cost, Hauling per cu.m.per km.)

Grand Total P 67,952.50

Equipment P 67,952.50

Labor P

Materials P

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the Cocotabato Wharf 1 to Jolo, Sulu Wharf 2:

Item No. : ALL AGGREGATES Terrain : Flat to Rolling
Quantity : 800.00 Unit : cu.m.

Effective Working Hours : 24.00 hrs.

Safe Navigation Route for Cotabato-Jolo, Sulu (per ZC Harbor Pilot Office)

Distance (Cotabato-Zamboanga) : 135.00 n.m.
Distance (Zamboanga-Jolo Port, Sulu) : 80.00 n.m.
Total Distance : 215.00 n.m.

Hauling: **Using 800.00 cu.m.capacity Deck Barge**
Weight of Barge (cap. 1000 Ton DWT) : 0.00 kgs.
Allowable Total/Volume of Barge : 800.00 cu.m.3
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 DB : 800-1000 cu.m.

*Barge & Tugboat days computation : TIME-MOTION ANALYSIS

Speed when loaded : 3.00 n.m.
Speed when unloaded : 5.00 n.m.
Loaded running = $\frac{215.00}{3.00}$ = 71.67 hrs.
Unloaded running = $\frac{215.00}{5.00}$ = 43.00 hrs.
Loading and Unloading : 33.33 hrs.
Capacity of Barge : 800.00 cu.m.
Total Cycle time : 148.00 hrs.
No. of days for Barge per trip = $\frac{148.00}{24.00}$ = 6.17 say 6.17 days
Barge output per trip = 800.00 = 800.00 cu.m.
Dumptruck daily output = 10 x 6.17 = 61.67 cu.m.
Using (4) Dumptrucks = 4 x 61.67 = 246.66 cu.m.

EQUIPMENT USED : (2014 ACEL RATES)

1 - Unit Crane w/ clamshell @ P 5,540.00 /day x 3.08 days = P 17,081.28
1 - Unit Barge & Tugboat @ P 160,776.00 /day x 6.17 days = P 991,429.67
P 1,008,510.95

LABOR:

1 - Foreman @ P 696.80 /day x 6.17 days = P 4,296.84
2 - Unit Dumptruck @ P 387.52 /day x 6.17 days = P 4,779.31
Sub - Total P 9,076.14

MISCELLANEOUS EXPENSES:

1 - Lumpsum(local operators & other misc. fees) @ P 15,000.00 L.S. = P 15,000.00
Sub - Total P 15,000.00

Estimated Quantity 800.00 cu.m.

Unit Cost P 6.00 / cu. m./n.m. (Unit Cost, Hauling per cu.m.per n.m.)

Grand Total P 1,032,587.09
Equipment P 1,008,510.95
Labor P 9,076.14
Miscellaneous P 15,000.00

8

Hauling Cost from the Bato-Bato Wharf 2 to Project 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/m³

Unit weight of Coarse Aggregates : 1,534.00 kg/m³

Maximum Volume to be Carried per DT : 11.57 cu.m.

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

Speed when loaded : 25.00 kph

Speed when unloaded : 35.00 kph

Loaded running = $\frac{5.00}{25.00} \times 60$ = 12.00 mins.

Unloaded running = $\frac{5.00}{35.00} \times 60$ = 8.57 mins.

Loading and Unloading : 10.00 mins.

Capacity of Dumptruck : 10.00 cu.m.

Total Cycle time : 30.57 mins.

No. of trips for Dumptruck per day = $\frac{10}{30.57} \times 60.00$ = 19.63 say 19.63 trips

Dumptruck daily output = 10 x 19.63 = 196.26 cu.m.

Using (4) Dumptrucks = 4 x 196.26 = 785.05 cu.m.

1. No. of days for Dumptrucks = $\frac{1,000.00}{785.05}$ = 1.27 say 1.27 days

EQUIPMENT USED : (2014 ACEL RATES)

1 - Payloader	@ P	13,864.00 /day	x	1.27 days = P	17,660.10
4 - Unit Dumptruck	@ P	11,360.00 /day	x	1.27 days = P	57,881.90
				Sub - Total	P 75,542.00

Estimated Quantity 1,000.00 cu.m.

Unit Cost P 15.11 / cu. m./km. (Unit Cost, Hauling per cu.m.per km.)

Grand Total P 75,542.00

Equipment P 75,542.00

Labor P

Materials P

8

HAULING COST FROM WHARF 2 JOLO, Sulu TO PROJECT SITE (HAULING COST III)

	Ave. Hauling Distance	Hauling Cost lt per cum.	Hauling Cost per cum.	Hauling Cost III per cum.
Cost of Fine Aggregates:	58.00	x 13.59 =	788.25	= 788.25
Cost of Coarse Aggregates:	58.00	x 13.59 =	788.25	= 788.25
Cost of Item 200 Materials:	58.00	x 13.59 =	788.25	= 788.25
Cost of Item 201 Materials:	58.00	x 13.59 =	788.25	= 788.25
Cost of Item 300 Materials:	58.00	x 13.59 =	788.25	= 788.25
Cost of Boulders:	58.00	x 13.59 =	788.25	= 788.25
Cost of Embankmen, Common Borrow:	10.00	x 13.59 =	135.91	= 135.91
Cost of Embankmen, Selected Borrow:	58.00	x 13.59 =	788.25	= 788.25

8

HAULING COST FROM COTABATO SUPPLIER TO WHARF 1 (HAULING COST I)

	Ave. Hauling Distance	Unit Cost per cum./km.	Hauling Cost per cum.	Hauling Cost 1 per cum.
Cost of Fine Aggregates:	5.00	X 15.11	= 75.54	= 75.54
Cost of Coarse Aggregates:	5.00	X 15.11	= 75.54	= 75.54
Cost of Item 200 Materials:	5.00	X 15.11	= 75.54	= 75.54
Cost of Item 201 Materials:	5.00	X 15.11	= 75.54	= 75.54
Cost of Item 300 Materials:	5.00	X 15.11	= 75.54	= 75.54
Cost of Boulders:	5.00	X 15.11	= 75.54	= 75.54
Cost of Embankmen, Common Borrow:	5.00	X 15.11	= 75.54	= 75.54
Cost of Embankmen, Selected Borrow:	5.00	X 15.11	= 75.54	= 75.54

HAULING COST FROM COTABATO WHARF 1 TO WHARF 2 JOLO, SULU (HAULING COST II)

	Ave. Hauling Distance	Unit Cost per cum./km.	Hauling Cost per cum.	Hauling Cost II per cum.
Cost of Fine Aggregates:	215.00	X 6.00	= 1,290.73	= 1,290.73
Cost of Coarse Aggregates:	215.00	X 6.00	= 1,290.73	= 1,290.73
Cost of Item 200 Materials:	215.00	X 6.00	= 1,290.73	= 1,290.73
Cost of Item 201 Materials:	215.00	X 6.00	= 1,290.73	= 1,290.73
Cost of Item 300 Materials:	215.00	X 6.00	= 1,290.73	= 1,290.73
Cost of Boulders:	215.00	X 6.00	= 1,290.73	= 1,290.73
Cost of Embankmen, Common Borrow:	215.00	X 6.00	= 1,290.73	= 1,290.73
Cost of Embankmen, Selected Borrow:	215.00	X 6.00	= 1,290.73	= 1,290.73

CONCRETING OF BARANGAY SUCUBAN FARM - TO - MARKET ROAD
BARANGAY SUCUBAN
OMAR, SULU

KM. 00+000.00 TO KM. 00+545.00

NET LENGTH :545.00 Ln.M. (1.09 Lane Km.)

SUMMARY OF QUANTITIES

ITEM No.	DESCRIPTION	UNIT	QUANTITY	REMARKS
102(2)	Surplus Common Excavation	Cu.M.	3,242.00	For Disposal
103(3)	Foundation Fill	Cu.M.	1.00	For RCPC beddings
103(6)a	Pipe Culvert and Drain Excavation	Cu.M.	18.00	For RCPC Excavation
105(1)a	Subgrade Preparation	Sq.M.	5,418.00	Variable width
200(1)	Aggregate Sub-base Course	Cu.M.	1,717.00	0.25 m. thk.(min.) Compacted volume.
311(1)c1	Portland Cement Concrete Pavement	Sq.M.	2,725.00	0.23 m. thk., includes widening
500(1)b3	Reinf. Conc. Culvert Pipe, (910mm dia.)	Ln.M.	10.00	Class IV, Wall B, AASHTO M - 170 - 85
505(2)a	Grouted Riprap, Class "A"	Cu.M.	2.00	For Headwall apron
506(1)	Stone Masonry	Cu.M.	14.00	For Headwall and wingwall
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	Sq.M.	131.00	For Center lines(Separation) & Edge Lines
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	Sq.M.	18.00	For Barrier Lines
A.1.1(3)	Const. of Field Office for the Engineer	Each	1.00	For Government Field Office (7.00m. X 9.00m.)
B.5	Project Billboard	Each	4.00	Per D.O. # 37, s. 2010
B.7	Const. Safety & Health Program	Mos.	-	