



DPWH REGIONAL OFFICE IX

PROGRAM OF WORKS/BUDGET COST

Project : CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

Project ID : _____

Location : UNGKAYA PUKAN, BASILAN

Station Limits : Sta. 0 000.00 - Sta. 0 + 435.00

Appropriation : Php 12,500,000.00

Source of Fund : _____

Net Length : (a) Road 435.00 In.m. = 0.870 lane.km.
(b) Bridge _____
(c) Others _____

Target Start Date : _____

Total Project Duration : 98 CD

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			2.08	203,515.37		
C: Earthworks			8.07	790,170.49		
D: Subbase and Base Course			34.24	3,351,764.80		
E: Surface Courses			52.10	5,099,718.32		
F: Bridge Construction			0.00	-		
G: Drainage and Slope Protection Structures			2.20	215,749.00		
H: Miscellaneous Structures			1.31	128,046.45		
Total			100.00	9,788,964.43		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	138,001.15	
2. Materials	8,130,790.81	
3. Rental of Equipment	1,520,172.67	
4. Provisional Sum / Daywork		
5. OCM and Profit	1,933,144.27	
6. Value Added Tax	586,105.43	
7. EAO, %	123,082.14	
8. RROW Acquisition	-	
9. Physical Reserved (Contingency)	68,703.72	
10. TOTAL ESTIMATED COST	12,500,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	9,788,964.43	
B. OCM and Profit	1,933,144.27	
C. Value Added Tax	586,105.43	
D. Total Construction Cost	12,308,214.13	
E. Eng'g & Administrative Overhead, %	123,082.14	
F. RROW Acquisition	-	
G. Physical Reserved (Contingency)	68,703.72	
H. TOTAL ESTIMATED COST	12,500,000.00	

Preparation and Submission:

Prepared by:

JOSEPHINE E. RENGQUIJO
Engineer II
DPWH RO9

Checked/Submitted by:

PIO MARIO T. CASTESANTOS
Engineer III
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

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

Approval:

Recommending Approval:

KHADAFFY D. TANGGOL
Assistant Regional Director
DPWH RO9

Approved:

CAYAMOMBAO D. DIA, CESO IV
Regional Director
DPWH RO9



DPWH REGIONAL OFFICE IX

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

UNGKAYA PUKAN, 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	203,515.37	16,054.46	10,978.49	27,032.95	230,548.31	
PART C	EARTHWORKS	AS EVALUATED						
		AS SUBMITTED	790,170.49	158,034.10	47,410.23	205,444.33	995,614.82	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED						
		AS SUBMITTED	3,351,764.80	670,352.96	201,105.89	871,458.85	4,223,223.65	
PART E	SURFACE COURSE	AS EVALUATED						
		AS SUBMITTED	5,099,718.32	1,019,943.66	305,983.10	1,325,926.76	6,425,645.09	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED						
		AS SUBMITTED	-	-	-	-	-	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED						
		AS SUBMITTED	215,749.00	43,149.80	12,944.94	56,094.74	271,843.74	
PART H	MISCELLANEOUS STRUCTURES	AS EVALUATED						
		AS SUBMITTED	128,046.45	25,609.29	7,682.79	33,292.08	161,338.53	
TOTAL		AS EVALUATED						
		AS SUBMITTED	9,788,964.43	1,933,144.27	586,105.43	2,519,249.71	12,308,214.13	

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:

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KHADAFFY D. TANGGOL
Assistant Regional Director

DPWH RO9

Approved:

CAYAMOMBAO D. DIA, CESO IV

Regional Director
DPWH RO9

PART C	EARTHWORKS									
102(2)	Surplus Common Excavation	AS EVALUATED								
		AS SUBMITTED	4,035.50	cu.m.	576,419.39	20%	115,283.88	34,585.16	149,869.04	726,288.43
103(3)	Foundation Fill	AS EVALUATED								
		AS SUBMITTED	2.50	cu. m.	3,170.97	20%	634.19	190.26	824.45	3,995.42
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED								
		AS SUBMITTED	30.00	cu.m.	6,919.13	20%	1,383.83	415.15	1,798.97	8,718.11
104(1) a1	Embankment from Roadway Excavation	AS EVALUATED								
		AS SUBMITTED	669.00	cu.m.	154,797.81	20%	30,959.56	9,287.87	40,247.43	195,045.25
105(1)a	Subgrade Preparation	AS EVALUATED								
		AS SUBMITTED	3,043.50	sq.m.	48,863.19	20%	9,772.64	2,931.79	12,704.43	61,567.62
	TOTAL OF PART C	AS EVALUATED								
		AS SUBMITTED			790,170.49		158,034.10	47,410.23	205,444.33	995,614.82
PART D	SUBBASE AND BASE COURSE									
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED								
		AS SUBMITTED	1,435.00	cu. m.	3,351,764.80	20%	670,352.96	201,105.89	871,458.85	4,223,223.65
	TOTAL OF PART D	AS EVALUATED								
		AS SUBMITTED			3,351,764.80		670,352.96	201,105.89	871,458.85	4,223,223.65

Preparation and Submission:

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DPWH RO9

Checked/Submitted by:

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Engineer III
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division
DPWH RO9

PART E	SURFACE COURSES										
300(1)	Gravel Surface Course, 0.15m. Thick	AS EVALUATED									
		AS SUBMITTED	-	cu. m.	-	20%	-	-	-	-	#DIV/0!
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	AS EVALUATED									
		AS SUBMITTED	1,021.00	sq. m.	1,158,379.56	20%	231,675.91	69,502.77	301,178.69	1,459,558.24	1,429.54
311(1)c1	Portland Cement Concrete Pavement, 0.23m. Thk.	AS EVALUATED									
		AS SUBMITTED	2,299.50	sq. m.	3,941,338.76	20%	788,267.75	236,480.33	1,024,748.08	4,966,086.84	2,159.64
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			5,099,718.32		1,019,943.66	305,983.10	1,325,926.76	6,425,645.09	
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	21.00	ln. m.	90,417.13	20%	18,083.43	5,426.03	23,508.45	113,925.58	5,425.03
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	8.00	cu. m.	33,593.93	20%	6,718.79	2,015.64	8,734.42	42,328.35	5,291.04
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	18.00	cu. m.	91,737.94	20%	18,347.59	5,504.28	23,851.86	115,589.80	6,421.66
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			215,749.00		43,149.80	12,944.94	56,094.74	271,843.74	

Preparation and Submission:

Prepared by:

Checked/Submitted by:

Evaluation:

Reviewed as to Unit Cost:

JOSEPHINE B. FENGQUIJO

Engineer II
DPWH RO9

PIO MARIO T. LACASTA SANTOS

Engineer III
DPWH RO9

SATURNINO C. TORREFRANCA

QC-Chief, Planning & Design Division
DPWH RO9



DPWH REGIONAL OFFICE IX

CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

UNGKAYA PUKAN, 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	0.44	km.	12,985.93	20%	2,597.19	779.16	3,376.34	16,362.27	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			203,515.37		16,054.46	10,978.49	27,032.95	230,548.31	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENQUJO

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

PART H	MISCELLANEOUS STRUCTURES										
612(1)	Reflectorized Thermoplastic Pavement Marking, White	AS EVALUATED									
		AS SUBMITTED	107.00	sq.m.	80,988.49	20%	16,197.70	4,859.31	21,057.01	102,045.49	953.70
612(2)	Reflectorized Thermoplastic Pavement Marking, Yellow	AS EVALUATED									
		AS SUBMITTED	57.00	sq.m.	47,057.97	20%	9,411.59	2,823.48	12,235.07	59,293.04	1,040.23
	TOTAL OF PART H	AS EVALUATED									
		AS SUBMITTED			128,046.45		25,609.29	7,682.79	33,292.08	161,338.53	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			9,788,964.43		1,933,144.27	586,105.43	2,519,249.71	12,308,214.13	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO
Engineer II
DPWH RO9

Checked/Submitted by:

PIO MARIO T. LACAS SANTOS
Engineer III
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREERANCA
Old Chief, Planning & Design Division
DPWH RO9



CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BGRY. MATERLING AND BGRY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, 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 m ³ /1.95 yd ³	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	4-6ft 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. MATERLING - BRGY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description

: B.4(1) Construction Survey and Staking

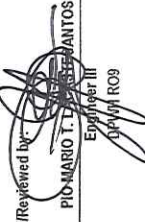
Quantity : 0.44
 Unit of Measurement : km.
 Output per hour - As Submitted : 1.00
 Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	For Fieldworks:				
	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.2	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				20,487.30
	Labor				
B.1	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				
	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
F.1	E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Standard Stake Plan (800 mm x 910 mm polling)	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
F.2	Sub - Total for F.1 - As Submitted				
	Materials				6,665.40
	Sub - Total for F.2 - As Evaluated				
	G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				29,852.70
	G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				
G.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		3,582.32
	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		
	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		2,388.22
	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		
	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		1,791.16
	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)		37,614.40
	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by:


JOSEPHINE B. RENGQUILO
 Engineer II
 UPWH RO9

Checked/Reviewed by:


PIO MARIO T. LLANES
 Engineer III
 UPWH RO9

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

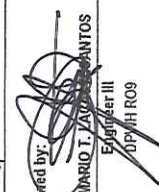
Quantity : 1.00
Unit of Measurement : Ls.
Output per hour - As Submitted : 1.00
Output per hour - As Evaluated :

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				0.00
A.2	Sub - Total for A.1 - As Submitted				0.00
	Labor				0.00
B.1	Sub - Total for A.2 - As Evaluated				
	Equipment				
	Low Bed Trailer	1	12.00	4,255.38	51,064.56
B.2	Sub - Total for B.1 - As Submitted				51,064.56
	Equipment				
C.1	Sub - Total for B.2 - As Evaluated				51,064.56
	Sub 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				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				
G.1	Sub - Total for F.2 - As Evaluated				51,064.56
G.2	Direct Unit Cost (E.1 + F.1) - As Submitted				
H.1	Direct Unit Cost (E.2 + F.2) - As Evaluated				6,127.75
H.2	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	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:


JOSEPHINE B. RENGOLICO
Engineer II
DPWH RO9

Checked/Reviewed by:


PIO MARIO T. JANSEN SANTOS
Engineer III
DPWH RO9

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 4,035.50
Unit of Measurement : cu.m.
Output per hour - As Submitted : 60.00
Output per hour - As Evaluated :

	Designation	No. of Person/s	No. of Hour/s	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				
	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
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
G.1	Total (A.1 + B.1) - As Submitted				8,570.23
G.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 (G.1 ÷ D.1) - As Submitted				142.84
E.2	Direct Unit Cost (G.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				142.84
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	17.14
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	11.43
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)	8.57
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)	179.97
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:  JOSEPHINE B. REAGONIO
Engineer II
DPWH RO9

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

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BGRY. MATERLING AND BGRY. ULITAN, UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description

: 103(3) Foundation Fill

Quantity : 2.50

Unit of Measurement : cu.m.

Output per hour - As Submitted : 1.25

Output per hour - As Evaluated :

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Constl. Foreman	1	1.00	87.10	87.10
	Laboreers	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	2.82
B.2	Sub - Total for B.1 - As Submitted				150.32
	Equipment				
	Sub - Total for B.2 - As Evaluated				432.18
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				1.25
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	Materials				
	Filling Materials	cu.m.	1.15	802.30	922.65
					-
					-
F.2	Sub - Total for F.1 - As Submitted				922.65
	Materials				
	Sub - Total for F.2 - As Evaluated				1,288.39
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	162.21
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	101.47
I.2	Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
J.1	Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	76.10
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)	1,598.17
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENGQUIJO
Engineer/It
BSP/H RO9

Checked/Reviewed by:

PIO MARIO T. VILLASANTOS
Engineer III
DP/H RO9

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 30.00
Unit of Measurement : cu.m.
Output per hour - As Submitted : 20.00
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PhP)
A.1	Labor				
	Const. Foreman	1	1.00	87.10	87.10
	Laborers	3	1.00	48.44	145.32
	Sub - Total for A.1 - As Submitted				232.42
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				4,612.75
C.1	Total (A.1 + B.1) - As Submitted				-
	Total (A.2 + B.2) - As Evaluated				20.00
	Output per hour - As Submitted				20.00
	Output per hour - As Evaluated				230.64
	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				-
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Materials				
	Sub - Total for F.1 - As Submitted				-
F.2	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)	280.60
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

Checked/Reviewed by:

JOSEPHINE B. MENGQUILLO
Engineer II
DPWH RO9

PIO MARIO T. LACORANTOS
Engineer III
DPWH RO9

CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 669.00
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				
	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
	Laborers	2	1.00	48.44	96.88
	Sub - Total for A.1 - As Submitted				337.68
	Labor				
A.2					
B.1	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:				
	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
B.2	Equipment				
C.1	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
	E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				231.39
	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				
G.2	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				
	H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
	H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				
	H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				
	I.1 Contractor's Profit (CP) - As Submitted				
	I.2 Contractor's Profit (CP) - As Evaluated				
	J.1 Value Added Tax (VAT) - As Submitted				
	J.2 Value Added Tax (VAT) - As Evaluated				
K.1	Total Unit Cost - As Submitted				
K.2	Total Unit Cost - As Evaluated				

Prepared by:  JOSEPHINE B. PANGQUIJO
Engineer II
DPWH RO9

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

CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 3,043.50
 Unit of Measurement : sq.m.
 Output per hour - As Submitted : 300.00
 Output per hour - As Evaluated :

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Constl. 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
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	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
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				4,816.48
C.1	Total (A.1 + B.1) - As Submitted				-
C.2	Total (A.2 + B.2) - As Evaluated				300.00
D.1	Output per hour - As Submitted				300.00
D.2	Output per hour - As Evaluated				16.05
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				16.05
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				1.83
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		1.28
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		0.86
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)		20.23
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. RENGOULO
 Engineer II
 DPWH (COP)

Checked/Reviewed by:


 PIO MARIO T. LADO
 Engineer III
 DPWH (RO9)

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

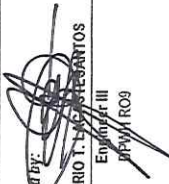
DETAILED UNIT PRICE ANALYSIS (OUPA)

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

Quantity : 1,435.00
 Unit of Measurement : cu.m.
 Output per hour - As Submitted : 50.00
 Output per hour - As Evaluated :

	Designation	No. of Person/s	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
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	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
B.2	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				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	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Aggregate Subbase Course	cu.m.	1.15	1,947.30	2,239.40
	(w/ 15% shrinkage)				-
					-
					-
					-
					-
					-
					-
	Sub - Total for F.1 - As Submitted				2,239.40
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				2,335.72
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	280.29
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	186.88
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)	140.14
J.2	Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
K.1	Total Unit Cost - As Submitted			5% of (G.1 + H.1 + I.1 + J.1)	2,943.01
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by: 
 JOSEPHINE B. REAQUIHO
 Engineer II
 DPWH RO9

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

CONCRETING OF BRGY. WATERLING - BRGY. ULITAN FMR, BRGY. WATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

UNGKAYA PUKAN, BASILAN

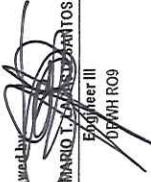
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 1,021.00
Unit of Measurement : sq.m.
Output per hour - As Submitted : 107.33
Output per hour - As Evaluated :

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	87.10	87.10
	Skilled Laborer	4	1.00	62.86	251.44
	Helpers	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				
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				107.33
D.2	Output per hour - As Evaluated				107.33
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				120.78
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Reinforcing Steel Bar	kg.	0.33	47.00	15.51
	Curing Compound	l.	0.29	48.00	13.92
	Asphalt Sealant	l.	0.12	76.00	9.12
	Steel Forms	m	0.46	40.00	18.40
	Fine Aggregates	cu.m.	0.0925	2,647.30	218.40
	Coarse Aggregates	cu.m.	0.15	1,947.30	292.10
	Portland Cement	bag	1.43	310.95	444.66
	Concrete Saw (Diamond Blade 14" dia.)	pc.	0.00015	8,000.00	1.20
	Pipe Sleeve, 1" dia.	m	0.0078	55.00	0.43
	Grease/Tar	l.	0.0915	21.00	0.03
	Sub - Total for F.1 - As Submitted				1,013.77
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				1,134.55
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		136.15
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		90.76
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)		68.07
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)		1,429.54
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by: 
JOSEPHINE B. RENGULIO
Engineer I
DRWM RO9

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

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 2,299.50
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
	Labors	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 Spreader	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				
B.2	Equipment				
	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				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	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	cu.m.	0.1265	2,647.30	334.88
	Coarse Aggregates	cu.m.	0.23	1,947.30	447.68
	Portland Cement	bag	2.19	310.95	680.99
	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				1,528.81
	Materials				
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				1,714.00
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		205.68
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		137.12
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)		102.84
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)		2,159.64
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by: 
JOSEPHINE B. RENGQUIJO
Engineer III
DPWH RO9

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

CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

UNGKAYA PUKAN, BASILAN

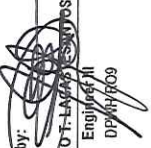
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 500(1)53 Pipe Culvert & Storm Drain, 910 mm dia.

Quantity : 21.00
Unit of Measurement : In. m.
Output per hour - As Submitted : 2.00
Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	0.57	87.10	49.65
	Skilled Laborers	2	0.57	62.86	71.66
	Unskilled Laborers	4	0.57	48.44	110.44
Sub - Total for A.1 - As Submitted					183.10
A.2	Labor				
					0.00
					0.00
Sub - Total for A.2 - As Evaluated					
B.1	Equipment				
	Backhoe	1	0.29	1,537.00	445.73
	Plate Compactor	1	0.29	123.00	35.67
Minor Tools (10 % of Labor Cost)					18.31
Sub - Total for B.1 - As Submitted					499.71
B.2	Equipment				
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				
F.1	Materials				
	Portland Cement	bag	1.08	310.95	335.83
	Fine Aggregates	cu.m.	0.061	2,647.30	161.49
	RC Pipes	pc.	1.00	3,128.00	3,128.00
	Sand Bedding	cu.m.	0.128	2,647.30	338.85
F.2	Materials				
Sub - Total for F.1 - As Submitted					3,864.17
Sub - Total for F.2 - As Evaluated					
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				4,305.58
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% of (G.1 + H.1 + J.1)	516.67
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% of (G.2 + H.2 + J.2)	
I.1	Contractor's Profit (CP) - As Submitted			10% of G.1	344.45
I.2	Contractor's Profit (CP) - As Evaluated			10% of G.2	
J.1	Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	258.33
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)	5,425.03
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	

Prepared by: 
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Engineer II
DPWH-ROB

Checked/Reviewed by: 
PIO MARIO T. LLANES
Engineer III
DPWH-ROB

CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR. BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN

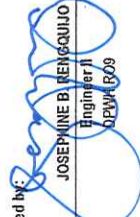
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 18.00
Unit of Measurement : cu.m.
Output per hour - As Submitted : 1.60
Output per hour - As Evaluated :

	Designation	No. of Person/s	No. of Hour/s	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
A.2					
Sub - Total for A.1 - As Submitted					514.24
B.1	Labor				
Sub - Total for A.2 - As Evaluated					
B.2	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
Minor Tools (10 % of Labor Cost)					
Sub - Total for B.1 - As Submitted					448.20
B.2	Equipment				
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				1.60
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				633.67
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials				
	Portland Cement	bag	5.50	310.95	1,710.25
	Fine Aggregates	cu.m.	0.300	2,647.30	794.19
	Gravel Fill	cu.m.	0.020	1,947.30	38.95
	50mm. (2") PVC Pipe	m.	0.30	110.00	33.00
F.2	Filter Cloth	sq.m.	0.015	160.00	2.40
	Boulders	cu.m.	1.05	1,752.30	1,839.92
Misc. (1% of Materials Cost)					
Sub - Total for F.1 - As Submitted					44.19
F.2	Materials				
Sub - Total for F.2 - As Evaluated					
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				5,006.55
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	611.59
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	407.72
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)	305.79
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)	6,421.66
K.2	Total Unit Cost - As Evaluated,			(G.2 + H.2 + I.2 + J.2)	

Prepared by: 
JOSEPHINE B. RENGQUICO
Engineer I
DPWK R09

Checked/Reviewed by: 
PIO MARIO T. LACAYAS
Engineer III
DPWK R09

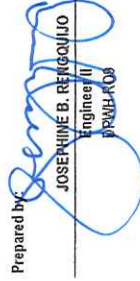
CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 8.00
 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
	Skilled Laborers	2	1.00	62.86	125.72
	Laborers	8	1.00	48.44	387.52
	Sub - Total for A.1 - As Submitted				514.24
A.2	Labor				
					0.00
					0.00
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	One Baggor Mixer	1	1.00	172.00	172.00
	Water Truck/Pump	1	0.05	2,450.00	122.50
					-
					-
					-
					-
					-
					-
					-
	Minor Tools (5 % of Labor Cost)				25.71
	Sub - Total for B.1 - As Submitted				320.21
	Equipment				
	Sub - Total for B.2 - As Evaluated				834.45
C.1	Total (A.1 + B.1) - As Submitted				-
C.2	Total (A.2 + B.2) - As Evaluated				1.25
D.1	Output per hour - As Submitted				1.25
D.2	Output per hour - As Evaluated				687.56
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				
	Portland Cement	bag	3.00	310.95	932.86
	Fine Aggregates	cu.m.	0.250	2,647.30	661.83
	Gravel Fill	cu.m.	0.015	1,947.30	29.21
	50mm. (2") PVC Pipe	m.	0.30	101.67	30.50
	Filter Cloth	sq.m.	0.015	160.00	2.40
	Boulders	cu.m.	1.05	1,752.30	1,839.92
					-
	Misc (1% of Materials Cost)				34.97
	Sub - Total for F.1 - As Submitted				3,531.68
	Materials				
	Sub - Total for F.2 - As Evaluated				4,199.24
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				503.91
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		335.94
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)		251.95
J.2	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		-
K.1	Total Unit Cost - As Submitted		5% of (G.1 + H.1 + I.1 + J.1)		5,291.04
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by: 
 JOSEPHINE B. RENGOLILLO
 Engineer II
 PWH-R08

Checked/Reviewed by: 
 PIO MARIO T. L. SANTOS
 Engineer III
 PWH-R09

DETAILED UNIT PRICE ANALYSIS (DUPA)

612(1) ReflectORIZED Pavement Markings, White

Quantity	:	107.00
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
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PhP)
	Equipment				
	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				1,932.35
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 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)	cy	0.004	4,250.00	17.00
	LPG (12 kg)	cy	0.002	1,020.00	2.04
	Calamine	kg.	0.125	30.00	3.75
	Misc (5% of Materials Cost)				32.03
					6.20
	Sub - Total for F.1 - As Submitted				678.81
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	90.83
	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	60.55
	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)	45.41
	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)	953.70
	K.2 Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	

Checked/Reviewed by:



Engineer III
DRAFTING

CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 57.00
Unit of Measurement : sq.m.
Output per hour - As Submitted : 25.00
Output per hour - As Evaluated :

	Designation	No. of Person/s	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
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
					-
B.2	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				1,952.35
C.1	Total (A.1 + B.1) - As Submitted				-
C.2	Total (A.2 + B.2) - As Evaluated				25.00
D.1	Output per hour - As Submitted				25.00
D.2	Output per hour - As Evaluated				78.09
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				
	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
	Calumene	kg	0.125	30.00	3.75
					-
	Misc. (5% of Materials Cost)				35.59
					-
F.2	Sub - Total for F.1 - As Submitted				747.48
	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				99.07
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		66.05
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		49.53
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		-
J.2	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		1,040.23
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. BENGQUILLO
Engineer III
DUPA/R.09

Checked/Reviewed by:  HOWARD T. SANTOS
Engineer III
DUPA/R.09

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

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

Quantity = **78,110.00** Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Isabela City DEO PROJECT SITE	42.00

* Average hauling distance from Source to assumed Stockpiling area :
say 42.00 km.

Delivery Charge = P 0.120 x 42.00
= P **5.04** / 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	=	$\frac{42.00 \times 60}{30.00}$	= 84.00 mins.
Unloaded running	=	$\frac{42.00 \times 60}{40.00}$	= 63.00 mins.
Loading and Unloading	:	45.00	mins.
Capacity of Dumptruck	:	8.00	cu.m.
	:	500.00	bags

Total Cycle time : 192.00 mins.
 = $\frac{8.0 \times 60.00}{192.00} = 2.50$ say 2.50 trip
 Dumptruck daily output = $500 \times 2.50 = 1,250.00$ cu.m.
 Using (4) Dumptrucks = $4 \times 1250.00 = 5,000.00$ cu.m.

1. No. of days for Delivery Truck = $\frac{78,110.00}{5,000.00} = 15.62$ say 15.62 days
2. No. of days for Labor, for unloading = complimentary to D. Truck days = 15.62 days

DELIVERY COST :

78,110.00 - Bags, Portland Cement @ P 5.04 / bag = P 393,674.40
Sub - Total P 393,674.40

LABOR :

1 - Foreman @ P 696.80 / day x 15.62 days = P 10,885.41
 10 - Laborers, unloading @ P 387.52 / day x 15.62 days = P 60,538.37
Sub - Total P 71,423.78

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 310.95 / Bag, say P 310.95 / Bag
 Grand Total P 24,288,648.18
 Delivery Cost P 393,674.40
 Labor P 71,423.78
 Materials P 23,823,550.00

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the District Office to Site

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

Hauling: Using 10.00 cu.m.capacity Dumpttruck

Weight of Dumpttruck (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.

*Dumpttruck (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 Dumpttruck : 10.00 cu.m.
Total Cycle time : 22.50 mins.
No. of trips for Dumpttruck per day = $\frac{8 \times 60.00}{22.50} = 21.33$ say 21.33 trips
Dumpttruck daily output = 10 x 21.33 = 213.33 cu.m.
Using (4) Dumpttrucks = 4 x 213.33 = 853.33 cu.m.
1. No. of days for Dumpttrucks = $\frac{1,000.00}{853.33} = 1.17$ say 1.17 days

EQUIPMENT USED : (2009 ACEL RATES)

4 - Unit Dumpttruck @ 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
Antarinate P

ISABELE 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:					
	42.00	x 10.65	= 447.30	+ 2,200.00	= 2,647.30
Cost of Coarse Aggregates:					
	42.00	x 10.65	= 447.30	+ 1,500.00	= 1,947.30
Cost of Item 200 Materials:					
	42.00	x 10.65	= 447.30	+ 1,500.00	= 1,947.30
Cost of Item 201 Materials:					
	42.00	x 10.65	= 447.30	+ 1,500.00	= 1,947.30
Cost of Item 300 Materials:					
	42.00	x 10.65	= 447.30	+ 1,400.00	= 1,847.30
Cost of Boulders:					
	42.00	x 10.65	= 447.30	+ 1,305.00	= 1,752.30
Cost of Embankmen, Common Borrow:					
	5.00	x 10.65	= 53.25	+ 336.00	= 389.25
Cost of Embankmen, Selected Borrow:					
	42.00	x 10.65	= 447.30	+ 355.00	= 802.30

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BGRY. MATERLING AND BGRY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, 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 Person/s	No. of Hour/s	Hourly Rate	Amount (Php)
A.1	Labor				
	Constl. 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
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				
					246.84
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
B.2	Equipment				
C.1	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				246.84
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
	Output per hour - As Evaluated				1.00
D.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				246.84
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpsaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes lumber	bd.ft.	50.00	56.00	2,800.00
F.2	Assorted CW Nails	Kg.	1.00	90.00	90.00
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				4,791.84
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCH) - As Submitted				
	Overhead, Contingencies & Miscellaneous (OCH) - As Evaluated				
H.1	Contractor's Profit (CP) - As Submitted				
	Contractor's Profit (CP) - As Evaluated				
	Value Added Tax (VAT) - As Submitted				
	Value Added Tax (VAT) - As Evaluated				
	Total Unit Cost - As Submitted				6,037.72
K.1	Total Unit Cost - As Evaluated				
K.2	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				246.84
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
	Output per hour - As Evaluated				1.00
D.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				246.84
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpsaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes lumber	bd.ft.	50.00	56.00	2,800.00
F.2	Assorted CW Nails	Kg.	1.00	90.00	90.00
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				4,791.84
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCH) - As Submitted				
	Overhead, Contingencies & Miscellaneous (OCH) - As Evaluated				
H.1	Contractor's Profit (CP) - As Submitted				
	Contractor's Profit (CP) - As Evaluated				
	Value Added Tax (VAT) - As Submitted				
	Value Added Tax (VAT) - As Evaluated				
	Total Unit Cost - As Submitted				6,037.72
K.1	Total Unit Cost - As Evaluated				
K.2	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				246.84
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
	Output per hour - As Evaluated				1.00
D.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				246.84
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpsaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes lumber	bd.ft.	50.00	56.00	2,800.00
F.2	Assorted CW Nails	Kg.	1.00	90.00	90.00
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				4,791.84
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCH) - As Submitted				
	Overhead, Contingencies & Miscellaneous (OCH) - As Evaluated				
H.1	Contractor's Profit (CP) - As Submitted				
	Contractor's Profit (CP) - As Evaluated				
	Value Added Tax (VAT) - As Submitted				
	Value Added Tax (VAT) - As Evaluated				
	Total Unit Cost - As Submitted				6,037.72
K.1	Total Unit Cost - As Evaluated				
K.2	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				246.84
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
	Output per hour - As Evaluated				1.00
D.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				246.84
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpsaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes lumber	bd.ft.	50.00	56.00	2,800.00
F.2	Assorted CW Nails	Kg.	1.00	90.00	90.00
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				4,791.84
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCH) - As Submitted				
	Overhead, Contingencies & Miscellaneous (OCH) - As Evaluated				
H.1	Contractor's Profit (CP) - As Submitted				
	Contractor's Profit (CP) - As Evaluated				
	Value Added Tax (VAT) - As Submitted				
	Value Added Tax (VAT) - As Evaluated				
	Total Unit Cost - As Submitted				6,037.72
K.1	Total Unit Cost - As Evaluated				
K.2	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				246.84
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
	Output per hour - As Evaluated				1.00
D.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				246.84
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpsaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes lumber	bd.ft.	50.00	56.00	2,800.00
F.2	Assorted CW Nails	Kg.	1.00	90.00	90.00
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				4,791.84
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCH) - As Submitted				
	Overhead, Contingencies & Miscellaneous (OCH) - As Evaluated				
H.1	Contractor's Profit (CP) - As Submitted				
	Contractor's Profit (CP) - As Evaluated				
	Value Added Tax (VAT) - As Submitted				
	Value Added Tax (VAT) - As Evaluated				
	Total Unit Cost - As Submitted				6,037.72
K.1	Total Unit Cost - As Evaluated				
K.2	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				246.84
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
	Output per hour - As Evaluated				1.00
D.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				246.84
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpsaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes lumber	bd.ft.	50.00	56.00	2,800.00
F.2	Assorted CW Nails	Kg.	1.00	90.00	90.00
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				4,791.84
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCH) - As Submitted				
	Overhead, Contingencies & Miscellaneous (OCH) - As Evaluated				
H.1	Contractor's Profit (CP) - As Submitted				
	Contractor's Profit (CP) - As Evaluated				
	Value Added Tax (VAT) - As Submitted				
	Value Added Tax (VAT) - As Evaluated				
	Total Unit Cost - As Submitted				6,037.72
K.1	Total Unit Cost - As Evaluated				
K.2	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				246.84
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
	Output per hour - As Evaluated				1.00
D.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				246.84
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpsaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes lumber	bd.ft.	50.00	56.00	2,800.00
F.2	Assorted CW Nails	Kg.	1.00	90.00	90.00
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMR, BRGY. MATERLING AND BRGY. ULITAN, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

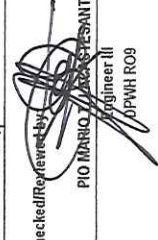
DETAILED UNIT PRICE ANALYSIS (DUPA)

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 Procliffioner	1	186.00	62.86	12,320.56
	First Aider	1	784.00	48.44	37,976.96
					0.00
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				50,297.52
	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				50,297.52
C.1	Total (A.1 + B.1) - As Submitted				-
C.2	Total (A.2 + B.2) - As Evaluated				1.00
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				50,297.52
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				
	Rubber Boots/shoe, 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, Hp)	bd.fl.	15.00	300.00	4,500.00
	First Aid Kit (Complete medicines & tools)	set	1.00	2,500.00	2,500.00
	Barriacades/Signboards	pcs.	15.00	1,400.00	21,000.00
	Sub - Total for F.1 - As Submitted				-
	Materials				36,250.00
	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)		109,049.88
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:  JOSEPHINE B. RENGQUILLO
Engineer II
DPWH RO9

Checked/Reviewed by:  PIO MARIO P. CASTES SANTOS
Engineer II
DPWH RO9

CONCRETING OF BRGY. MATERLING - BGRY. ULITAN FMIR, BGRY. MATERLING AND BGRY. ULITAN, UNGKAYA PUKAN, 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
					0.00
				62.86	0.00
				48.44	0.00
Sub - Total for A.1 - As Submitted					
A.2	Labor				0.00
Sub - Total for A.2 - As Evaluated					
B.1	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	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					
D.2 Output per hour - As Evaluated					
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				
	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 during of the project)				
	Sub - Total for F.1 - As Submitted				33,750.00
	Materials				
Sub - Total for F.2 - As Evaluated					
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					
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated					
I.1 Contractor's Profit (CP) - As Submitted					
I.2 Contractor's Profit (CP) - As Evaluated					
J.1 Value Added Tax (VAT) - As Submitted					
J.2 Value Added Tax (VAT) - As Evaluated					
K.1 Total Unit Cost - As Submitted					
K.2 Total Unit Cost - As Evaluated					

Prepared by:

JOSEPHINE B. RENGQUJO

Engineer/II
DPWH/RO3

Checked/Reviewed by:

PIO MARIO T. LACAYAN

Engineer/III
DPWH/RO3

**CONCRETING OF BRGY. MATERLING - BRGY. ULITAN FMR,
BRGY. MATERLING AND BRGY. ULITAN,
UNGKAYA PUKAN, BASILAN**

Station Limits

Beginning of Project: STA. 0+000.00
End of Project: STA. 0+435.00

Net Length:

435.00 In.m

SUMMARY OF QUANTITIES

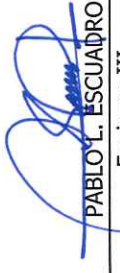
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
PART C - EARTHWORKS				
102(2)	Surplus Common Excavation	cu.m.	4,034.50	For disposal
103(3)	Foundation Fill	cu.m.	2.50	For RCPC bedding
103(6)a	Pipe culverts and drain excavation	cu.m.	30.00	For RCPC excavation
104(1a)	Embankment from roadway excavation	cu.m.	669.00	Compacted volume, common soil
105(1a)	Subgrade Preparation	sq.m.	3,043.50	Common material, variable width
PART D - SUBBASE AND BASE COURSE				
200(1)	Aggregate Subbase Course	cu.m.	1,435.00	0.25 m. thick, compacted volume
PART E - SURFACE COURSES				
311(1)a	Portland Cement Concrete Pavement	sq.m.	1,021.00	0.15 m. thk, width = 1.50 m. (Paved Shoulders)
311(1)c1	Portland Cement Concrete Pavement	sq.m.	2,299.50	0.23 m. thk, width = 5.00 m.
PART G - DRAINAGE AND SLOPE PROTECTION WORKS				
500(1)b3	Pipe Culverts, 910 mm dia.	In.m.	21.00	Class IV, Wall B, AASHTO M - 170 - 85
505(2)a	Grouted Riprap	cu.m.	8.00	Class A, for headwall apron & slope protection
506(1)	Stone Masonry	cu.m.	18.00	for headwall, wingwall and catch basin
PART H - MISCELLANEOUS STRUCTURES				
612(1)	ReflectORIZED Thermoplastic Pavement Markings White	sq.m.	107.00	For edge line and centerline
612(2)	ReflectORIZED Thermoplastic Pavement Markings Yellow	sq.m.	57.00	For barrier lines
B.5	Project Billboard	Each	4.00	Per D.O. #21, s. 2017 with TRAIN branding per memo dated 21 March 2018
B.7	Occupational Safety & Health Program	L.S.	1.00	

10s - P12.5M

Prepared by:


JENALYN O. SABANAL
Engineer II

Checked by:


PABLO L. ESCUADRO
Engineer III
Chief, Highway Design Section