



DPWH REGIONAL OFFICE IX

PROGRAM OF WORKS/BUDGET COST

Project : CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR, BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN

Project ID :
Location : UNGKAYA PUKAN, BASILAN
Station Limits : Sta. 0 000.00 - Sta. 0 + 415.00
Appropriation : Php 12,500,000.00
Source of Fund :

Net Length : (a) Road 415.00 In.m. = 0.830 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			2.07	202,918.31		
C: Earthworks			11.58	1,133,731.53		
D: Subbase and Base Course			32.40	3,171,860.89		
E: Surface Courses			52.81	5,170,303.25		
F: Bridge Construction			0.00	-		
G: Drainage and Slope Protection Structures			1.15	112,295.05		
H: Miscellaneous Structures			0.00	-		
Total			100.00	9,791,109.03		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	133,634.29	
2. Materials	7,857,108.46	
3. Rental of Equipment	1,800,366.28	
4. Provisional Sum / Daywork		
5. OCM and Profit	1,933,573.19	
6. Value Added Tax	586,234.11	
7. EAO, %	123,109.16	
8. RROW Acquisition		
9. Physical Reserved (Contingency)	65,974.50	
10. TOTAL ESTIMATED COST	12,500,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	9,791,109.03	
B. OCM and Profit	1,933,573.19	
C. Value Added Tax	586,234.11	
D. Total Construction Cost	12,310,916.33	
E. Eng'g & Administrative Overhead, %	123,109.16	
F. RROW Acquisition	-	
G. Physical Reserved (Contingency)	65,974.50	
H. TOTAL ESTIMATED COST	12,500,000.00	

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:

KHADAFFY B. TANGGOL
Assistant Regional Director
DPWH RO9

Approved:

CAYAMOMBAO D. DIA, CESO IV
Regional Director
DPWH RO9



DPWH REGIONAL OFFICE IX

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR, BRGY. TONGBATO, 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	202,918.31		15,935.05	10,942.67	26,877.72	229,796.03	
PART C	EARTHWORKS	AS EVALUATED							
		AS SUBMITTED	1,133,731.53		226,746.31	68,023.89	294,770.20	1,428,501.73	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED							
		AS SUBMITTED	3,171,860.89		634,372.18	190,311.65	824,683.83	3,996,544.72	
PART E	SURFACE COURSE	AS EVALUATED							
		AS SUBMITTED	5,170,303.25		1,034,060.65	310,218.19	1,344,278.84	6,514,582.09	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED							
		AS SUBMITTED	-		-	-	-	-	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED							
		AS SUBMITTED	112,295.05		22,459.01	6,737.70	29,196.71	141,491.77	
PART H	MISCELLANEOUS STRUCTURES	AS EVALUATED							
		AS SUBMITTED	-		-	-	-	-	
TOTAL		AS EVALUATED							
		AS SUBMITTED	9,791,109.03		1,933,573.19	586,234.11	2,519,807.30	12,310,916.33	

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 A. LACAYTESANTOS

Engineer III

DPWH RO9

SATURNINO C. TORREFRANCA

QC-Chief, Planning & Design Division

DPWH RO9

KHADAFY D. TANGGOL

Assistant Regional Director

DPWH RO9

CAYAMON D. DIA, CESO IV

Regional Director

DPWH RO9



DPWH REGIONAL OFFICE IX

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR, BRGY. TONGBATO, 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	0.42	km.	12,388.87	20%	2,477.77	743.33	3,221.11	15,609.98	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			202,918.31		15,935.05	10,942.67	26,877.72	229,796.03	

Preparation and Submission:

Prepared by:

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Engineer II

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Checked/Submitted by:

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Engineer III

DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

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

DPWH RO9

PART C	EARTHWORKS										
100(1)	Clearing & Grabbing	AS EVALUATED									
		AS SUBMITTED	0.62	each	104,779.75	20%	20,955.95	6,286.79	27,242.74	132,022.49	212,939.50
102(2)	Surplus Common Excavation	AS EVALUATED									
		AS SUBMITTED	6,117.00	cu.m.	873,734.95	20%	174,746.99	52,424.10	227,171.09	1,100,906.04	179.97
103(3)	Foundation Fill	AS EVALUATED									
		AS SUBMITTED	1.00	cu. m.	1,556.20	20%	311.24	93.37	404.61	1,960.82	1,960.82
103(6)a	Pipe Culvert and Drain Excavation	AS EVALUATED									
		AS SUBMITTED	12.00	cu.m.	2,767.65	20%	553.53	166.06	719.59	3,487.24	290.60
104(1) a1	Embankment from Roadway Excavation	AS EVALUATED									
		AS SUBMITTED	438.00	cu.m.	101,347.45	20%	20,269.49	6,080.85	26,350.34	127,697.78	291.55
105(1)a	Subgrade Preparation	AS EVALUATED									
		AS SUBMITTED	3,086.00	sq.m.	49,545.52	20%	9,909.10	2,972.73	12,881.84	62,427.36	20.23
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			1,133,731.53		226,746.31	68,023.89	294,770.20	1,428,501.73	
PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course, 0.30 m. thick	AS EVALUATED									
		AS SUBMITTED	1,209.00	cu. m.	3,171,860.89	20%	634,372.18	190,311.65	824,683.83	3,996,544.72	3,305.66
	TOTAL OF PART D	AS EVALUATED									
		AS SUBMITTED			3,171,860.89		634,372.18	190,311.65	824,683.83	3,996,544.72	

Preparation and Submission:

Prepared by:

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DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

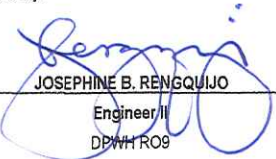
SATURNINO G. TORREFRANCA

Old-Chief, Planning & Design Division
DPWH RO9

PART E	SURFACE COURSES										
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	AS EVALUATED									
		AS SUBMITTED	930.00	sq. m.	1,113,522.12	20%	222,704.42	66,811.33	289,515.75	1,403,037.88	1,508.64
311(1)c1	Portland Cement Concrete Pavement, 0.23m. Thk.	AS EVALUATED									
		AS SUBMITTED	2,241.00	sq. m.	4,056,781.12	20%	811,356.22	243,406.87	1,054,763.09	5,111,544.22	2,280.92
	TOTAL OF PART E	AS EVALUATED									
		AS SUBMITTED			5,170,303.25		1,034,060.65	310,218.19	1,344,278.84	6,514,582.09	
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	10.00	ln. m.	43,563.48	20%	8,712.70	2,613.81	11,326.50	54,889.99	5,489.00
505(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	4.00	cu. m.	18,165.50	20%	3,633.10	1,089.93	4,723.03	22,888.53	5,722.13
506(1)	Stone Masonry	AS EVALUATED									
		AS SUBMITTED	9.26	cu. m.	50,566.07	20%	10,113.21	3,033.96	13,147.18	63,713.25	6,880.48
	TOTAL OF PART G	AS EVALUATED									
		AS SUBMITTED			112,295.05		22,459.01	6,737.70	29,196.71	141,491.77	

Preparation and Submission:

Prepared by:


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 Engineer II
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Checked/Submitted by:


PIO MARIO T. LACASTASANTOS
 Engineer III
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Evaluation:

Reviewed as to Unit Cost:


SATURNINO G. TORREBRANCA
 OIC-Chief, Planning & Design Division
 DPWH RO9



CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR, BRGY. TONGBATO, 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 m3/1.95 yd3	2	33			
4	Motorized Road Grader (G710A)		2	34			
5	Vibratory Roller (SD100DC)	10mt	2	35			
6	Plate Compactor (400-500 GASOLINE ENGINE)		2	36			
7	Backhoe (SE 130 LC -2)		2	37			
8	Backhoe with Breaker (SE 130 - LC - 2)		2	38			
9	Concrete Screeder (Wacker Truss Screed)		2	39			
10	One Bagger Mixer	4-6ft3/min	2	40			
11	Transit Mixer (All Models)	5-6 ya3	4	41			
12	Dump Truck (All Models)	12 yd3	8	42			
13	Cargo/Service Truck (All Models)	9 - 10 mt	2	43			
14	Boom Truck (All Models)	2-5 mt	1	44			
15	Water Truck/pump (All Makes)	16000 L	1	45			
16	Water Pump, 100 mm suction dia.	50 (mm)	1	46			
17	Welding Machine (Gas /Diesel Driven)		1	47			
18	Concrete Vibrator		2	48			
19	Concrete Saw		2	49			
20	Bar Cutter		1	50			
21	Bar Bender		1	51			
22	Concrete Batch Plant		1	52			
23	Hydroseeding Machine			53			
24	Applicator Machine			54			
25	Kneading Machine			55			
26	Cutting Outfit		1	56			
27				57			
28				58			
29				59			
30				60			
SUB-TOTAL				SUB-TOTAL			
				TOTAL			

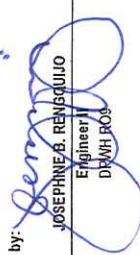
CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 0.42
 Unit of Measurement : KPL
 Output per hour - As Submitted : 1.00
 Output per hour - As Evaluated :

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	For Fieldworks:				0.00
	Geodetic Engineer	1	27.00	104.16	2,812.42
	Skilled Laborers	1	27.00	62.86	1,687.22
	Laborers	2	27.00	48.44	2,615.76
	For Office Works:				
	Geodetic Engineer	1	80.00	104.16	8,333.10
	Skilled Laborers	1	80.00	62.86	5,028.80
					0.00
	Sub - Total for A.1 - As Submitted				20,487.30
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
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				
	C.1 Total (A.1 + B.1) - As Submitted				23,187.30
	C.2 Total (A.2 + B.2) - As Evaluated				-
	D.1 Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				1.00
	E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				23,187.30
	E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Materials				
	Standard Stake Plan (800 mm x 910 mm plotting)	sheets	23.00	51.00	1,173.00
	blue print as stake plan	pcs.	115.00	45.00	5,175.00
	miscellaneous(5% of Materials)			317.40	317.40
					-
	Sub - Total for F.1 - As Submitted				6,665.40
	Materials				
	Sub - Total for F.2 - As Evaluated				
	G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				29,852.70
F.2	G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				-
	H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	3,582.32
	H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.2	-
	I.1 Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	2,388.22
	I.2 Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
	J.1 Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	1,791.16
	J.2 Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
	K.1 Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	37,614.40
	K.2 Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:  JOSEPHINE B. RENSQUIJO
 Engineer I
 DWH RO9

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

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, 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 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
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				246.84
	Sub - Total for A.2 - As Evaluated				
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PhP)
	Equipment				
B.1					-
					-
					-
	Sub - Total for B.1 - As Submitted				-
	Equipment				
B.2					
	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				1.00
	D.1 Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				246.84
	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				
	Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	855.00	855.00
	Tarpaulin (4' x 8')	pc.	1.00	800.00	800.00
	Assorted Sizes Lumber	bd.ft.	50.00	56.00	2,800.00
	Assorted CW Nails	kg.	1.00	90.00	90.00
F.2					-
	Sub - Total for F.1 - As Submitted				4,545.00
	Materials				
	Sub - Total for F.2 - As Evaluated				4,791.84
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				575.02
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		383.35
I.2	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		287.51
J.2	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		-
K.1	Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		6,037.72
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:  JOSEFINE B. PENGUJO
 Engineer
 DPMH RO9

Checked/Reviewed by:  PINARRIO T. PASTER SANTOS
 Engineer III
 DPMH RO9

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FHR. BRGY. TONGBATO, 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 : Hrs.
 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 Pracitioner	1	196.00	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				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (PhP)
B.2	Equipment				
	Sub - Total for B.1 - As Submitted				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				50,297.52
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				1.00
D.1	Output per hour - As Evaluated				1.00
	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				50,297.52
	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Materials	Unit	Quantity	Unit Cost	Amount (PhP)
	Rubber BootsMen, Long w/ Steel Toe, Black	pc.	15.00	500.00	7,500.00
	Working Gloves (Maong Materials)	pc	15.00	50.00	750.00
	Rain Coats (Reinforced, Hip)	bd.ft.	15.00	300.00	4,500.00
F.2	First Aid Kit (Complete medicines & tools)	set	1.00	2,500.00	2,500.00
	Barricades/Signboards	pes.	15.00	1,400.00	21,000.00
	Sub - Total for F.1 - As Submitted				36,250.00
	Materials				
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				86,547.52
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated			15% / 12% / 10% / 8% of G.1	10,385.70
				15% / 12% / 10% / 8% of G.2	
				10% / 8% of G.1	
	Contractor's Profit (CP) - As Submitted			10% / 8% of G.2	6,923.80
	Contractor's Profit (CP) - As Evaluated				
J.1	Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	5,192.85
				5% of (G.2 + H.2 + I.2)	
	Value Added Tax (VAT) - As Evaluated				
				(G.1 + H.1 + I.1 + J.1)	105,049.88
	Total Unit Cost - As Submitted				
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	

Prepared by:  JOSEPHINE D. REMOQUILLO
 Engineer III
 DPWH RO9

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

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FHR, BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
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 Hour/s	Hourly Rate	Amount (Php)
A.1	Labor				
					0.00
				62.86	0.00
				48.44	0.00
	Sub - Total for A.1 - As Submitted				0.00
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Sub - Total for B.1 - As Submitted				
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				1.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				
F.1	Materials				
	Advance Warning Sign	pc.	10.00	1,250.00	12,500.00
	Speed Limit Sign	pc	4.00	1,250.00	5,000.00
	Direction Sign	ps	4.00	1,250.00	5,000.00
	Bollards	pcs.	30.00	375.00	11,250.00
	Note:				
	(Rental Basis only for vehicle during of the project)				
	Sub - Total for F.1 - As Submitted				33,750.00
	Materials				
F.2	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				33,750.00
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		4,050.00
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		
I.1	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		2,700.00
I.2	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		2,025.00
J.2	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		
K.1	Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		42,525.00
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by:

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Engineer II
DUPM R09

Checked/Reviewed by:

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Engineer III
DUPM R09

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

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

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	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				
	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				51,064.56
	Total (A.2 + B.2) - As Evaluated				
	D.1 Output per hour - As Submitted				1.00
D.2	Output per hour - As Evaluated				1.00
	E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				51,064.56
	E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
F.2	Sub - Total for F.1 - As Submitted				
	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				51,064.56
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		6,127.75
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		
I.1	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		4,085.10
I.2	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		
J.1	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		3,063.87
J.2	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		
K.1	Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		64,341.35
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by: 
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 DPWH RO9

Checked/Reviewed by: 
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 Engineer III
 DPWH RO9

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 100/1 Clearing & Grabbing

Quantity : 0.42
Unit of Measurement : each
Output per hour - As Submitted : 0.05
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	2	1.00	48.44	96.88
	Sub - Total for A.1 - As Submitted Labor				184.98
A.2					
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Dumptruck	2	1.00	1,733.00	3,466.00
	Payloader	1	1.00	1,420.00	1,420.00
	Bulldozer	1	1.00	3,379.00	3,379.00
B.2	Sub - Total for B.1 - As Submitted Equipment				8,265.00
	Sub - Total for B.2 - As Evaluated				8,449.98
C.1	Total (A.1 + B.1) - As Submitted				-
C.2	Total (A.2 + B.2) - As Evaluated				0.05
D.1	Output per hour - As Submitted				0.05
D.2	Output per hour - As Evaluated				168,999.60
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				
F.2	Sub - Total for F.1 - As Submitted Materials				-
	Sub - Total for F.2 - As Evaluated				168,999.60
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				20,279.95
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	13,519.97
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)	1,680.00
J.2	Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
K.1	Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	204,489.52
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

Checked/Reviewed by:

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Engineer II
DPWH/RO9

PIO MARIO T. LUGO-SABARTOS
Engineer III
DPWH/RO9

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 6,117.00
Unit of Measurement : cu.m.
Output per hour - As Submitted : 60.00
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
	Labors	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
	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				8,570.23
C.1	Total (A.1 + B.1) - As Submitted				
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				60.00
D.2	Output per hour - As Evaluated				60.00
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				142.84
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Sub - Total for F.1 - As Submitted				
F.2	Materials				
G.1	Sub - Total for F.2 - As Evaluated				142.84
	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		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. RENEDILLO
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DPWH ROR

Checked/Reviewed By:  PIO MARIO T. AGUSTIN
Engineer III
DPWH ROR

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR, BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description:

103(3) Foundation Fill

Quantity : 1.00
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
	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	Equipment				
	Sub - Total for B.1 - As Submitted				150.32
C.1	Sub - Total for B.2 - As Evaluated				
	Sub - Total for C.1 - As Submitted				432.18
C.2	Sub - Total for B.2 - As Evaluated				
	Sub - Total for C.2 - As Submitted				1.25
D.1	Output per hour - As Submitted				1.25
	Sub - Total for D.1 - As Submitted				345.74
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				
	Sub - Total for E.1 - As Submitted				1,210.46
F.1	Materials				
	Filling Materials	cu.m.	1.15	1,052.58	1,210.46
	Sub - Total for F.1 - As Submitted				1,210.46
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				1,558.20
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				
	Sub - Total for G.1 - As Submitted				186.74
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				
	Sub - Total for H.1 - As Submitted				124.50
I.1	Contractor's Profit (CP) - As Submitted				
	Sub - Total for I.1 - As Submitted				93.37
J.1	Value Added Tax (VAT) - As Submitted				
	Sub - Total for J.1 - As Submitted				1,050.32
K.1	Total Unit Cost - As Submitted				
	Sub - Total for K.1 - As Submitted				1,050.32
K.2	Total Unit Cost - As Evaluated				
	Sub - Total for K.2 - As Evaluated				1,050.32

Prepared by:

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CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 12.00
Unit of Measurement : cu.m.
Output per hour - As Submitted : 20.00
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	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	Equipment				
	Sub - Total for B.2 - As Evaluated				4,379.33
C.1	Sub - Total for B.2 - As Evaluated				
	C.1 Total (A.1 + B.1) - As Submitted				4,612.75
	C.2 Total (A.2 + B.2) - As Evaluated				-
	D.1 Output per hour - As Submitted				20.00
	D.2 Output per hour - As Evaluated				20.00
	E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted				230.64
	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				230.64
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	27.68
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	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)	-

Prepared by: JOSEPHINE B. RENCQUILLO

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Checked/Reviewed by:

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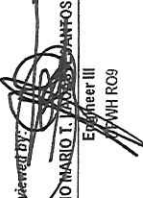
CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FHR, BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
 UNGKAYA PUKAN, BASILAN
 DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 438.66
 Unit of Measurement : cu.m.
 Output per hour - As Submitted : 50.00
 Output per hour - As Evaluated :

	Designation	No. of Personls	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					
	Sub - Total for A.2 - As Evaluated				
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				
	Sub - Total for B.2 - As Evaluated				
	C.1 Total (A.1 + B.1) - As Submitted				11,569.34
	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				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				
	Direct Unit Cost (E.1 + F.1) - As Submitted				231.39
	Direct Unit Cost (E.2 + F.2) - As Evaluated				
	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		27.77
	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		
	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		18.51
	Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		
	Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		13.88
	Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		
	Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		291.55
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by:  JOSEPHINE B. RENGQUIJO
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 PPWH RO9

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

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FHR, BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description:

311(f)(1)a Portland Cement Concrete Pavement, 0.15m. Thk.

Quantity : 930.00
Unit of Measurement : sq.m.
Output per hour - As Submitted : 107.33
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 Laborer	4	1.00	62.86	251.44
	Laborers	12	1.00	48.44	581.28
	Sub - Total for A.1 - As Submitted				920.82
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment				
	Transit Mixer	4	1.00	1,318.00	5,272.00
	Concrete Vibrator	2	1.00	91.25	182.50
	Concrete Batch Plant	1	1.00	1,759.50	1,759.50
	Payloader	1	1.00	1,733.00	1,733.00
	Concrete Screeder	1	1.00	545.00	545.00
	Water Truck/Pump	1	1.00	2,450.00	2,450.00
	Concrete Saw	1	1.00	32.63	32.63
	Bar Cutter	1	0.10	219.75	21.98
	Minor Tools (5% of Labor Cost)				48.04
	Sub - Total for B.1 - As Submitted				12,042.65
	Equipment				
	Sub - Total for B.2 - As Evaluated				12,963.47
C.1	Total (A.1 + B.1) - As Submitted				
C.2	Total (A.2 + B.2) - As Evaluated				
D.1	Output per hour - As Submitted				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				
	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.1	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.	0.0825	2,897.58	239.05
	Coarse Aggregates	cu.m.	0.15	2,197.58	329.64
	Portland Cement	bag	1.43	314.17	449.26
	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.	0.0015	21.00	0.03
	Sub - Total for F.1 - As Submitted				1,076.55
	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				1,197.34
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				
H.1	Overhead, Contingencies & Miscellaneous (OCH) - As Submitted			15% / 12% / 10% / 8% of G.1	143.88
H.2	Overhead, Contingencies & Miscellaneous (OCH) - As Evaluated			15% / 12% / 10% / 8% of G.2	-
I.1	Contractor's Profit (CP) - As Submitted			10% / 8% of G.1	95.79
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)	71.84
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)	1,508.84
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RENGQUIJO
Engineer I
DPWH RO9

Checked/Reviewed by:

PIO MARIO - CASAYESANTOS
Engineer III
DPWH RO9

**CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN**

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 2,241.06
Unit of Measurement : sq.m.
Output per hour - As Submitted : 70.00
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
	Skilled Laborers	4	1.00	62.86	251.44
	Laborers	12	1.00	48.44	581.28
	Sub - Total for A.1 - As Submitted				920.82
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	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				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	2,897.58	366.54
	Coarse Aggregates	cu.m.	0.23	2,197.58	505.44
	Portland Cement	bag	2.19	314.17	688.02
	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				1,625.06
	Materials				
	Sub - Total for F.2 - As Evaluated				1,810.25
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		217.23
	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		144.82
	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)		108.82
	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)		2,280.92
	K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by: 
JOSEPHINE B. REMONQUILLO
Engineer III
DEWY RO9

Checked/Reviewed by: 
HQ MARIO T. SANTOS
Engineer III
DPMH RO9

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 10.00
Unit of Measurement : m.
Output per hour - As Submitted : 2.00
Output per hour - As Evaluated :

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Constl. Foreman	1	0.57	87.10	49.55
	Skilled Laborers	2	0.57	62.86	71.66
	Helpers	4	0.57	48.44	110.44
A.2	Sub - Total for A.1 - As Submitted				183.10
	Labor				
B.1	Sub - Total for A.2 - As Evaluated				
	Equipment				
	Backhoe	1	0.29	1,537.00	445.73
	Plate Compactor	1	0.29	123.00	35.67
B.2	Minor Tools (10 % of Labor Cost)				
	Sub - Total for B.1 - As Submitted				481.71
	Equipment				
C.1	Sub - Total for B.2 - As Evaluated				
	Total (A.1 + B.1) - As Submitted				662.81
	Total (A.2 + B.2) - As Evaluated				
	Output per hour - As Submitted				2.00
	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	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Portland Cement	bag	1.08	314.17	339.30
	Fine Aggregates	cu.m.	0.061	2,897.58	176.75
	RC Pipes	pc.	1.00	3,128.00	3,128.00
F.2	Sand Bedding	cu.m.	0.128	2,897.58	370.89
G.1	Sub - Total for F.1 - As Submitted				4,014.94
	Materials				
G.2	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				4,356.35
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	522.76
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	348.51
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)	261.38
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)	5,489.00
K.2	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	

Prepared by:

JOSEPHINE B. RENGQUINO
Engineer I
DPWH R10

Checked/Revised by:

PIQ MARIO I. CASTELLANOS
Engineer III
DPWH R09

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMR, BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description:

505(2)a Grouted Riprap, Class "A"

Quantity : 4.00
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
	Labors	8	1.00	48.44	387.52
	Sub - Total for A.1 - As Submitted				514.24
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	One Bagger 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
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				834.45
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				867.56
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Portland Cement	bag	3.00	314.17	942.50
	Fine Aggregates	cu.m.	0.250	2,897.58	724.39
	Gravel Fill	cu.m.	0.015	2,197.58	32.96
	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	2,002.58	2,102.70
	Misc. (1% of Materials Cost)				38.35
	Sub - Total for F.1 - As Submitted				3,873.81
F.2	Materials				
	Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				4,541.38
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		544.97
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		363.31
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)		272.48
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)		5,722.13
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENGALLO
Engineer III
DWH-RO6

Checked/Reviewed by:

PIO MARINO T. SANTOS
Engineer III
DWH-RO9

CONCRETING OF BRGY. TONGBATO - SITIO SELLANGAN FMH. BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN
UNGKAYA PUKAN, BASILAN

DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 9.2#
Unit of Measurement : cu.m.
Output per hour - As Submitted : 1.60
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	62.88	125.72
	Laborers	8	1.00	48.44	387.52
	Sub - Total for A.1 - As Submitted				514.24
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				
B.1	Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	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				51.42
	Equipment				499.62
B.2	Sub - Total for B.2 - As Evaluated				
	C.1 Total (A.1 + B.1) - As Submitted				1,013.68
	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	Unit	Quantity	Unit Cost	Amount (Php)
	Portland Cement	bag	5.50	314.17	1,727.91
	Fine Aggregates	cu.m.	0.300	2,897.58	869.27
	Gravel Fill	cu.m.	0.020	2,197.58	43.95
	50mm. (2") PVC Pipe	m.	0.30	110.00	33.00
	Filter Cloth	sq.m.	0.015	160.00	2.40
	Boulders	cu.m.	1.05	2,002.58	2,102.70
	Misc. (1% of Materials Cost)				
	Sub - Total for F.1 - As Submitted				47.79
	Materials				4,827.03
F.2	Sub - Total for F.2 - As Evaluated				
	G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				5,460.70
	G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				
	H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 18% of G.1		655.28
	H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 18% of G.2		
I.1	Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		438.86
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)		327.64
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)		6,880.48
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		

Prepared by: 
JOSEPHINE B. REINGQUILLO
Engineer II
DPWH RO9

Checked/Reviewed by: 
PIO MARIANO
Engineer III
DPWH RO9

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the District Office to Site

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

Hauling: Using 10.00 cu.m.capacity Dumptruck

Weight of Dumptruck (cap. 10.00 cu.m.) : 16,000.00 kg.
Unit weight of Fine Aggregates : 1,640.00 kg/m³
Unit weight of Coarse Aggregates : 1,534.00 kg/m³
Maximum Volume to be Carried per DT : 11.57 cu.m.

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

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

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

EQUIPMENT USED : (2009 ACEL RATES)

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

Estimated Quantity 1,000.00 cu.m.

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

Grand Total P 53,250.00

Equipment P 53,250.00

Labor P

Material

SABELA 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:	65.50	x 10.65	= 697.58	+ 2,200.00	= 2,897.58
Cost of Coarse Aggregates:	65.50	x 10.65	= 697.58	+ 1,500.00	= 2,197.58
Cost of Item 200 Materials:	65.50	x 10.65	= 697.58	+ 1,500.00	= 2,197.58
Cost of Item 201 Materials:	65.50	x 10.65	= 697.58	+ 1,500.00	= 2,197.58
Cost of Item 300 Materials:	65.50	x 10.65	= 697.58	+ 1,400.00	= 2,097.58
Cost of Boulders:	65.50	x 10.65	= 697.58	+ 1,305.00	= 2,002.58
Cost of Embankmen, Common Borrow:	5.00	x 10.65	= 53.25	+ 336.00	= 389.25
Cost of Embankmen, Selected Borrow:	65.50	x 10.65	= 697.58	+ 355.00	= 1,052.58

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	65.50

*Average hauling distance from Source to assumed Stockpiling area :
say 65.50 km.

Delivery Charge = P 0.120 x 65.50
= P **7.86** / 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	=	$\frac{65.50 \times 60}{30.00}$	= 131.00 mins.
Unloaded running	=	$\frac{65.50 \times 60}{40.00}$	= 98.25 mins.
Loading and Unloading	:	45.00	mins.
Capacity of Dumptruck	:	8.00	cu.m.
	:	500.00	bags

Total Cycle time : 274.25 mins.
 No. of trips for Dumptruck per day = $\frac{8.0 \times 60.00}{274.25} = 1.75$ say 1.75 trip
 Dumptruck daily output = $500 \times 1.75 = 875.11$ cu.m.
 Using (4) Dumptrucks = $4 \times 875.11 = 3,500.46$ cu.m.

No. of days for Delivery Truck = $\frac{78,110.00}{3,500.46} = 22.31$ say 22.31 days

No. of days for Labor, for unloading = complimentary to D. Truck days = 22.31 days

DELIVERY COST :

78,110.00 - Bags, Portland Cement @ P 7.86 / bag = P 613,944.60
Sub - Total P 613,944.60

LABOR :

1 - Foreman @ P 696.80 / day x 22.31 days = P 15,548.56
 10 - Laborers, unloading @ P 387.52 / day x 22.31 days = P 86,472.12
Sub - Total P 102,020.69

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 314.17 / Bag, say P 314.17 / Bag

Grand Total P 24,539,515.29

Delivery Cost P 613,944.60

Labor P 102,020.69

Materials P 23,823,550.00

**PROJECT: CONCRETING OF
BARANGAY TONGBATO - SITIO SELLANGAN FMR
BRGY. TONGBATO, UNGKAYA PUKAN, BASILAN**

LIMITS : STA. 00+000.00 TO STA. 00+415.00

NET LENGTH : 415.00 Ln.M. (0.83 Lane Km.)

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
B.5	Project Billboard/Signboard	Each	4.00	Per D.O. # 21, s. 2017
B.7 (1)	Occupational Safety & Health Program	Mos.	-	
PART C - EARTHWORK				
100 (1)	Clearing & Grubbing	Has.	0.62	
102 (2)	Surplus Common Excavation	Cu.M.	6,117.00	For Disposal
103 (3)	Foundation Fill	Cu.M.	1.00	For RCPC beddings
103 (6)a	Pipe Culvert and Drain Excavation	Cu.M.	12.00	For RCPC Excavation
104 (1)a	Embankment from Roadway Excav.	Cu.M.	438.00	Compacted Volume
105 (1)a	Subgrade Preparation	Sq.M.	3,086.00	Variable width
PART D - SUBBASE AND BASE COURSE				
200 (1)	Aggregate Sub-base Course	Cu.M.	1,209.00	0.25m. Thk., Compacted volume.
PART E - SURFACE COURSES				
311 (1)a	Portland Cement Concrete Pavement	Sq.M.	930.00	For Paving of Road Shoulder
311 (1)c1	Portland Cement Concrete Pavement	Sq.M.	2,241.00	Road Width = 5.00 m.
PART G - DRAINAGE SLOPE PROTECTION STRUCTURES				
500 (1)b3	Pipe Culvert & Storm Drain	Ln.M.	10.00	Class IV, Wall B, AASHTO M - 170 - 85
505 (5)	Grouted Riprap, Class "A"	Cu.M.	4.00	Headwall apron
506 (1)	Stone Masonry	Cu.M.	9.26	For Headwall and wingwall

17/10/2019 15:35

Prepared by:

Checked by:

MA. DOLORES R. LACASTESANTOS

Engineer II

Mdbrl., Php. 12.50M., CY 2019

PABLO L. ESCUADRO

Engineer III

Chief, Highway Design Section