



DPWH REGIONAL OFFICE IX

PROGRAM OF WORKS/BUDGET COST

Data change
42

Project : CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS-
CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVTMENT) ALONG DAPITAN RIVER,
TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPITAN CITY, ZAMBOANGA DEL NORTE

Project ID : _____

Location : DAPITAN CITY , ZAMBOANGA DEL NORTE

Station Limits : 1 + 332.00 - 1 + 551.45, 1 + 570.54 - 1 + 669.00, 1 + 678.00 - 1 + 875.09

Appropriation : Php 115,000,000.00

Source of Fund : _____

Net Length : (a) Road 515.00 In.m.
(b) Bridge
(c) Others

Target Start Date : _____

Total Project Duration : 449 CD

No. of Pre-determined : 76 CD

Unworkable Days : 44 CD

DESCRIPTION OF WORKS TO BE DONE	QUANTITY	UNIT	AS SUBMITTED		AS EVALUATED	
			% TOTAL	TOTAL DIRECT COST	% TOTAL	TOTAL DIRECT COST
Part A: Facilities for the Engineer			1.40	1,249,572.47		
B: Other General Requirements			0.60	531,464.96		
C: Earthwork			1.31	1,164,532.84		
D: Subbase and Base Course			0.84	747,776.67		
J: Flood Control and Drainage			7.36	6,557,194.10		
F: Bridge Construction			18.16	16,169,695.98		
G: Drainage and Slope Protection Structures			27.81	24,764,660.20		
I: Materials Details			0.37	333,401.20		
I-B Bank and Slope Protection Works			42.15	37,538,927.95		
Total			100.00	89,057,226.38		

EQUIPMENT:

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

BREAKDOWN OF EXPENDITURES:

	AS SUBMITTED	AS EVALUATED
1. Labor	6,556,206.41	
2. Materials	73,000,089.25	
3. Rental of Equipment	9,500,930.72	
4. Provisional Sum / Daywork		
5. OCM and Profit	15,838,274.42	
6. Value Added Tax	5,244,775.04	
7. EAO, %	3,854,909.65	
8. RROW Acquisition	1,004,814.51	
9. Physical Reserved (Contingency)		
10.TOTAL ESTIMATED COST	115,000,000.00	

	AS SUBMITTED	AS EVALUATED
A. Total Direct Cost	89,057,226.38	
B. OCM and Profit	15,838,274.42	
C. Value Added Tax	5,244,775.04	
D. Total Construction Cost	110,140,275.83	
E. Eng'g & Administrative Overhead, %	3,854,909.65	
F. RROW Acquisition	1,004,814.51	
G. Physical Reserved (Contingency)		
H. TOTAL ESTIMATED COST	115,000,000.00	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO
Engineer II
DPWH RO9

Checked/Submitted by:

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

Evaluation:

Reviewed as to Unit Cost:

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

Approval:

Recommending Approval:

KHADAFFY D. TANGGOL
OIC-Assistant Regional Director
DPWH RO9

Approved:

CAYAMOMBABO D. DIA
OIC-Regional Director
DPWH RO9



DPWH REGIONAL OFFICE IX

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVETMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD,
DAPITAN CITY, ZAMBOANGA DEL NORTE
DAPITAN CITY, ZAMBOANGA DEL NORTE

APPROVED BUDGET FOR THE CONTRACT

Contract Duration :

449

ITEM NO.	DESCRIPTION		ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				%	VALUE				
PART A	FACILITIES FOR THE ENGINEER	AS EVALUATED							
		AS SUBMITTED	1,249,572.47		102,175.59	67,587.40	169,763.00	1,419,335.46	
PART B	OTHER GENERAL REQUIREMENTS	AS EVALUATED							
		AS SUBMITTED	531,464.96		26,384.81	27,892.49	54,277.30	585,742.26	
PART C	EARTHWORK	AS EVALUATED							
		AS SUBMITTED	1,164,532.84		209,615.91	68,707.44	278,323.35	1,442,856.19	
PART D	SUBBASE AND BASE COURSE	AS EVALUATED							
		AS SUBMITTED	747,776.67		134,599.80	44,118.82	178,718.62	926,495.29	
PART J	FLOOD CONTROL AND DRAINAGE	AS EVALUATED							
		AS SUBMITTED	6,557,194.10		1,180,294.94	386,874.45	1,567,169.39	8,124,363.49	
PART F	BRIDGE CONSTRUCTION	AS EVALUATED							
		AS SUBMITTED	16,169,695.98		2,910,545.28	954,012.06	3,864,557.34	20,034,253.32	
PART G	DRAINAGE AND SLOPE PROTECTION	AS EVALUATED							
		AS SUBMITTED	24,764,660.20		4,457,638.84	1,461,114.95	5,918,753.79	30,683,413.99	
PART I	MATERIALS DETAILS	AS EVALUATED							
		AS SUBMITTED	333,401.20		60,012.22	19,670.67	79,682.89	413,084.09	
PART I-B	BANK AND SLOPE PROTECTION	AS EVALUATED							
		AS SUBMITTED	37,538,927.95		6,757,007.03	2,214,796.75	8,971,803.78	46,510,731.74	
	TOTAL	AS EVALUATED							
		AS SUBMITTED	89,057,226.38		15,838,274.42	5,244,775.04	21,083,049.46	110,140,275.83	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer I
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee

DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division.

DPWH RO9

Approval:

Recommending Approval:

KHADAFFY D. TANGGOL

OIC-Assistant Regional Director

DPWH RO9

Approved:

CAYANOMBABO D. DIA

Regional Director

DPWH RO9



DPWH REGIONAL OFFICE IX

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVETMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPITAN CITY, ZAMBOANGA DEL NORTE

DAPITAN CITY , ZAMBOANGA DEL NORTE

APPROVED BUDGET FOR THE CONTRACT

Contract Duration :

ITEM NO.	DESCRIPTION		QUANTITY	UNIT	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
						%	VALUE				
PART A	FACILITIES FOR THE ENGINEER										
A.1.1(3)	Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	475,828.85	18%	85,649.19	28,073.90	113,723.09	589,551.94	589,551.94
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Engineers	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	206,580.00	8%	16,526.40	11,155.32	27,681.72	234,261.72	234,261.72
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	AS EVALUATED									
		AS SUBMITTED	1.00	L.S.	567,163.62	0%	-	28,358.18	28,358.18	595,521.80	595,521.80
	TOTAL OF PART A	AS EVALUATED									
		AS SUBMITTED			1,249,572.47		102,175.59	67,587.40	169,763.00	1,419,335.46	
PART B	OTHER GENERAL REQUIREMENTS										
B.5	Project Billboard/Signboard	AS EVALUATED									
		AS SUBMITTED	4.00	units	14,579.49	18%	2,624.31	860.19	3,484.50	18,063.99	4,516.00
B.4 (1)	Construction Survey and Staking	AS EVALUATED									
		AS SUBMITTED	0.52	km.	14,737.69	18%	2,652.78	869.52	3,522.31	18,260.00	35,456.31
B.7	Occupational Safety and Health Program	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	263,846.50	8%	21,107.72	14,247.71	35,355.43	299,201.93	299,201.93
B.9	Mobilization & Demobilization	AS EVALUATED									
		AS SUBMITTED	1.00	L. S.	238,301.28	0%	-	11,915.06	11,915.06	250,216.34	250,216.34
	TOTAL OF PART B	AS EVALUATED									
		AS SUBMITTED			531,464.96		26,384.81	27,892.49	54,277.30	585,742.26	
PART C	EARTHWORK										
104(2)a	Embankment from Borrow	AS EVALUATED									
		AS SUBMITTED	1,597.00	cu.m.	1,164,532.84	18%	209,615.91	68,707.44	278,323.35	1,442,856.19	903.48
	TOTAL OF PART C	AS EVALUATED									
		AS SUBMITTED			1,164,532.84		209,615.91	68,707.44	278,323.35	1,442,856.19	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee

DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning & Design Division

DPWH RO9

PART D	SUBBASE AND BASE COURSE									
200(1)	Aggregate Subbas Course	AS EVALUATED								
		AS SUBMITTED	711.00	cu.m.	747,776.67	18%	134,599.80	44,118.82	178,718.62	926,495.29
	TOTAL OF PART C	AS EVALUATED								
		AS SUBMITTED			747,776.67		134,599.80	44,118.82	178,718.62	926,495.29
PART J	FLOOD CONTROL AND DRAINAGE									
1702(1)	Structure Excavation	AS EVALUATED								
		AS SUBMITTED	4,592.00	cu.m.	1,055,378.03	18%	189,968.05	62,267.30	252,235.35	1,307,613.38
1704(1)a	Embankment	AS EVALUATED								
		AS SUBMITTED	7,545.00	cu.m.	5,501,816.07	18%	990,326.89	324,607.15	1,314,934.04	6,816,750.12
	TOTAL OF PART C	AS EVALUATED								
		AS SUBMITTED			6,557,194.10		1,180,294.94	386,874.45	1,567,169.39	8,124,363.49
PART F	BRIDGE CONSTRUCTION									
404(1)a	Reinforcing Steel, (Grade 40)	AS EVALUATED								
		AS SUBMITTED	45,000.00	kg.	2,457,727.50	18%	442,390.95	145,005.92	587,396.87	3,045,124.37
404(1)b	Reinforcing Steel Bar, (Grade 60)	AS EVALUATED								
		AS SUBMITTED	7,598.00	kg.	399,017.83	18%	71,823.21	23,542.05	95,365.26	494,383.10
405(1)a3	Structural Concrete, Class"A"	AS EVALUATED								
		AS SUBMITTED	1,835.00	cu.m.	13,312,950.64	18%	2,396,331.12	785,464.09	3,181,795.20	16,494,745.85
	TOTAL OF PART F	AS EVALUATED								
		AS SUBMITTED			16,169,695.98		2,910,545.28	954,012.06	3,864,557.34	20,034,253.32
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES									
508(1)	Handlaid Rock Embankment	AS EVALUATED								
		AS SUBMITTED	17,500.00	cu.m.	24,764,660.20	18%	4,457,638.84	1,461,114.95	5,918,753.79	30,683,413.99
	TOTAL OF PART G	AS EVALUATED								
		AS SUBMITTED			24,764,660.20		4,457,638.84	1,461,114.95	5,918,753.79	30,683,413.99
PART I	MATERIALS DETAILS									
715(2)	Separation Geotextile	AS EVALUATED								
		AS SUBMITTED	1,803.00	sq.m.	333,401.20	18%	60,012.22	19,670.67	79,682.89	413,084.09
	TOTAL OF PART I	AS EVALUATED								
		AS SUBMITTED			333,401.20		60,012.22	19,670.67	79,682.89	413,084.09

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer II
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee
DPWH RO9

Evaluation:

Reviewed as to Unit Cost:

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

DPWH RO9

PART I-B	BANK AND SLOPE PROTECTION										
1716(6)	Structural Steel Sheet Piles, Furnished (0.40wide)	AS EVALUATED									
		AS SUBMITTED	8,028.00	ln.m.	25,919,394.47	18%	4,665,491.00	1,529,244.27	6,194,735.28	32,114,129.74	4,000.27
1716(12)	Structural Steel Sheet Piles, Driven	AS EVALUATED									
		AS SUBMITTED	8,028.00	ln.m.	6,034,120.76	18%	1,086,141.74	356,013.12	1,442,154.86	7,476,275.62	931.27
1716(16)	Steel Sheet Test Piles, Furnished and Driven	AS EVALUATED									
		AS SUBMITTED	12.00	ln.m.	66,274.54	18%	11,929.42	3,910.20	15,839.61	82,114.15	6,842.85
1710(2)a	Grouted Riprap, Class "A"	AS EVALUATED									
		AS SUBMITTED	1,803.00	cu. m.	5,519,138.19	18%	993,444.87	325,629.15	1,319,074.03	6,838,212.21	3,792.69
	TOTAL OF PART I-B	AS EVALUATED									
		AS SUBMITTED			37,538,927.95		6,757,007.03	2,214,796.75	8,971,803.78	46,510,731.74	
	GRAND TOTAL	AS EVALUATED									
		AS SUBMITTED			89,057,226.38		15,838,274.42	5,244,775.04	21,083,049.46	110,140,275.83	

Preparation and Submission:

Prepared by:

JOSEPHINE B. RENGQUIJO

Engineer IV
DPWH RO9

Checked/Submitted by:

ISIDRA A. ESTANISLAO

Engineer IV - Chairman Estimating Committee
DPWH RO9

Evaluation:

Reviewed as to Unit Cost

SATURNINO C. TORREFRANCA

QC-Chief, Planning & Design Division
DPWH RO9



**CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVTMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG
DIPOLONG-OROQUIETA ROAD, DAPITAN CITY, ZAMBOANGA DEL NORTE
DAPITAN CITY , ZAMBOANGA DEL NORTE**

		ITEMIZED BREAKDOWN									
ITEM NO.	DESCRIPTION	QTY		UNIT	DIRECT COST				TOTAL UNIT COST		% DIRECT COST
					TOTAL		UNIT COST		(DIRECT+INDIRECT)		
		AS SUBMITTED	AS EVALUATED		AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS SUBMITTED	AS EVALUATED	AS EVALUATED
PART A	FACILITIES FOR THE ENGINEER										
A.1.1(3)	Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	1.00		L.S.	475,828.85		475,828.85		589,551.94		0.534
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for theField Office for the Engineers	1.00		L. S.	206,580.00		206,580.00		234,261.72		0.232
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	1.00		L.S.	567,163.62		567,163.62		655,073.98		0.637
	TOTAL OF PART A				1,249,572.47						1.403
PART B	OTHER GENERAL REQUIREMENTS										
B.5	Project Billboard/Signboard	4.00		units	14,579.49		3,644.87		4,516.00		0.016
B.4 (1)	Construction Survey and Staking	0.515		km.	14,737.69		28,616.88		35,456.31		0.017
B.7	Occupational Safety and Health Program	1.00		L. S.	263,846.50		263,846.50		326,905.81		0.296
B.9	Mobilization & Demobilization	1.00		L. S.	238,301.28		238,301.28		295,255.29		0.268
	TOTAL OF PART B				531,464.96						0.597
PART C	EARTHWORK										
104(2)a	Embankment from Borrow	1,597.00		cu.m.	1,164,532.84		729.20		903.48		1.308
	TOTAL OF PART C				1,164,532.84						1.308
PART D	SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbas Course	711.00		cu.m.	747,776.67		1,051.73		1,303.09		0.840
	TOTAL OF PART D				747,776.67						0.840

PART J	FLOOD CONTROL AND DRAINAGE									
1702(1)	Structure Excavation	4,592.00	cu.m.	1,055,378.03		229.83		284.76		1.185
1704(1)a	Embankment	7,545.00	cu.m.	5,501,816.07		729.20		903.48		6.178
	TOTAL OF PART C			6,557,194.10						7.363
PART F	BRIDGE CONSTRUCTION									
404(1)a	Reinforcing Steel, (Grade 40)	45,000.00	kg.	2,457,727.50		54.62		67.67		2.760
404(1)b	Reinforcing Steel Bar, (Grade 60)	7,598.00	kg.	399,017.83	-	52.52		65.07	-	0.448
405(1)a3	Structural Concrete, Class "A"	1,835.00	cu.m.	13,312,950.64		7,255.01		8,988.96		14.949
	TOTAL OF PART F			16,169,695.98						18.157
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES									
508(1)	Handlaid Rock Embankment	17,500.00	cu.m.	24,764,660.20		1,415.12		1,753.34		27.808
	TOTAL OF PART G			24,764,660.20						27.808
PART I	MATERIALS DETAILS									
715(2)	Separation Geotextile	1,803.00	sq.m.	333,401.20		184.91		229.11		0.374
				333,401.20						0.374

PART I-B	BANK AND SLOPE PROTECTION									
1716(5)	Structural Steel Sheet Piles, Furnished (0.40wide)	8,028.00		ln.m.	25,919,394.47		3,228.62		4,000.27	29.104
1716(12)	Structural Steel Sheet Piles, Driven	8,028.00		ln.m.	6,034,120.76		751.63		931.27	6.776
1716(16)	Steel Sheet Test Piles, Furnished and Driven	12.00		ln.m.	66,274.54		5,522.88		6,842.85	0.074
1710(2)a	Grouted Riprap, Class "A"	1,803.00		cu. m.	5,519,138.19		3,061.09		3,792.69	6.197
	TOTAL OF PART H				37,538,927.95					42.151
	GRAND TOTAL				89,057,226.38					100.000



STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVETMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-ORIGAN, DAPITAN CITY, ZAMBOANGA DEL NORTE

MINIMUM EQUIPMENT REQUIREMENT							
No.	Equipment Description	Capacity	Number of Equipment	No.	Equipment Description	Capacity	Number of Equipment
1	Truck Mounted Crane		1	31			
2	Vibro Hammer		1	32			
3	Gen. Set.		1	33			
4	Plate Compactor (400-500 GASOLINE ENGINE)		1	34			
5	One Bagger Mixer	4-6ft ³ /min	2	35			
6	Dump Truck (All Models)	12 yd ³	2	36			
7	Cargo/Service Truck (All Models)	9 - 10 mt	1	37			
8	Boom Truck (All Models)	2-5 mt	1	38			
9	Water Truck/pump (All Makes)	16000 L	1	39			
10	Water Pump, 100 mm suction dia.	50 (mm)	1	40			
11	Welding Machine (Gas /Diesel Driven)		1	41			
12	Concrete Vibrator		2	42			
13	Concrete Saw		2	43			
14	Bar Cutter		1	44			
15	Bar Bender		1	45			
16	Cutting Outfit		1	46			
17				47			
18				48			
19				49			
20				50			
21				51			
22				52			
23				53			
24				54			
25				55			
26				56			
27				57			
28				58			
29				59			
30				60			
	SUB-TOTAL		20		SUB-TOTAL		
					TOTAL		20



**ROAD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVETMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPITAN CIT
DAPITAN CITY , ZAMBOANGA DEL NORTE**

			DETAILED BREAKDOWN OF COMPONENT COST FOR EACH ITEM										
ITEM NO.	DESCRIPTION		%	QTY.	UNIT	DIRECT COST				TOTAL MARK-UP		5% VAT	TOTAL COST
						MATERIAL	LABOR	EQUIPMENT	TOTAL	%	VALUE		
PART A	FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	AS EVALUATED			L.S.								
		AS SUBMITTED	0.534	1.00		315,326.12	109,329.75	51,172.98	475,828.85	18%	85,649.19	28,073.90	589,551.94
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for theField Office for the Engineers	AS EVALUATED			L. S.								
		AS SUBMITTED	0.232	1.00		206,580.00			206,580.00	8%	16,526.40	11,155.32	234,261.72
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	AS EVALUATED			L.S.								
		AS SUBMITTED	0.637	1.00		356,636.50	210,527.12	-	567,163.62	0%	-	28,358.18	595,521.80
	TOTAL OF PART A	AS EVALUATED											
		AS SUBMITTED	1.403			878,542.62	319,856.87	51,172.98	1,249,572.47		102,175.59	67,587.40	1,419,335.46
PART B	OTHER GENERAL REQUIREMENTS												
B.5	Project Billboard/Signboard	AS EVALUATED			units								
		AS SUBMITTED	0.016	4.00		13,660.00	919.49	-	14,579.49	18%	2,624.31	860.19	18,063.99
B.4 (1)	Construction Survey and Staking	AS EVALUATED			km.								
		AS SUBMITTED	0.017	0.52		3,121.75	10,225.44	1,390.50	14,737.69	18%	2,652.78	869.52	18,260.00
B.7	Occupational Safety and Health Program	AS EVALUATED			L. S.								
		AS SUBMITTED	0.296	1.00		49,000.00	214,846.50	-	263,846.50	8%	21,107.72	14,247.71	299,201.93
B.9	Mobilization & Demobilization	AS EVALUATED			L. S.								
		AS SUBMITTED	0.268	1.00		-	-	238,301.28	238,301.28	0%	-	11,915.06	250,216.34
	TOTAL OF PART B	AS EVALUATED											
		AS SUBMITTED	0.597			65,781.75	225,991.43	239,691.78	531,464.96		26,384.81	27,892.49	585,742.26
PART C	EARTHWORK												
104(2)a	Embankment from Borrow	AS EVALUATED			cu.m.								
		AS SUBMITTED	4.493	1,597.00		1,011,100.63	5,502.10	147,930.11	1,164,532.84	18%	209,615.91	68,707.44	1,442,856.19
	TOTAL OF PART C	AS EVALUATED											
		AS SUBMITTED	4.493			1,011,100.63	5,502.10	147,930.11	1,164,532.84		209,615.91	68,707.44	1,442,856.19
PART D	SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbas Course	AS EVALUATED			cu.m.								
		AS SUBMITTED	2.885	711.00		679,467.15	2,449.59	65,859.93	747,776.67	18%	134,599.80	44,118.82	926,495.29
	TOTAL OF PART D	AS EVALUATED											
		AS SUBMITTED	2.885			679,467.15	2,449.59	65,859.93	747,776.67		134,599.80	44,118.82	926,495.29
PART J	FLOOD CONTROL AND DRAINAGE												
1702(1)	Structure Excavation	AS EVALUATED			cu.m.								
		AS SUBMITTED	4.072	4,592.00		-	49,919.63	1,005,458.40	1,055,378.03	18%	189,968.05	62,267.30	1,307,613.38
1704(1)a	Embankment	AS EVALUATED			cu.m.								
		AS SUBMITTED	21.227	7,545.00		4,776,928.13	25,994.60	698,893.35	5,501,816.07	18%	990,326.89	324,607.15	6,816,750.12
	TOTAL OF PART J	AS EVALUATED											
		AS SUBMITTED	25.298			4,776,928.13	75,914.23	1,704,351.75	6,557,194.10		1,180,294.94	386,874.45	8,124,363.49
PART F	BRIDGE CONSTRUCTION												
404(1)a	Reinforcing Steel, (Grade 40)	AS EVALUATED			kg.								
		AS SUBMITTED	2.760	45,000.00		2,190,510.00	119,867.50	147,350.00	2,457,727.50	18%	442,390.95	145,005.92	3,045,124.37
404(1)b	Reinforcing Steel Bar, (Grade 60)	AS EVALUATED			kg.								
		AS SUBMITTED	0.448	7,598.00		353,899.64	20,238.96	24,879.23	399,017.83	18%	71,823.21	23,542.05	494,383.10
405(1)a3	Structural Concrete, Class"A"	AS EVALUATED			cu.m.								
		AS SUBMITTED	14.949	1,835.00		10,758,334.50	1,786,036.63	768,579.51	13,312,950.64	18%	2,396,331.12	785,464.09	16,494,745.85
	TOTAL OF PART F	AS EVALUATED											
		AS SUBMITTED	18.157			13,302,744.15	1,926,143.09	940,808.74	16,169,695.98		2,910,545.28	954,012.06	20,034,253.32

PART G		DRAINAGE AND SLOPE PROTECTION STRUCTURES											
500(1)b3	Reinf. Conc. Culvert Pipe, 910mm dia.	AS EVALUATED			ln. m.								
		AS SUBMITTED	-	-		-	-	-	18%	-	-	-	
508(1)	Handlaid Rock Embankment	AS EVALUATED			cu. m.								
		AS SUBMITTED	27.808	17,500.00		21,811,125.00	2,685,032.00	268,503.20	24,764,660.20	18%	4,457,638.84	1,461,114.95	30,683,413.99
	TOTAL OF PART G	AS EVALUATED											
		AS SUBMITTED	27.808			21,811,125.00	2,685,032.00	268,503.20	24,764,660.20		4,457,638.84	1,461,114.95	30,683,413.99
PART I		MATERIALS DETAILS											
715(2)	Separation Geotextile	AS EVALUATED			sq.m.								
		AS SUBMITTED	0.374	1,803.00		302,904.00	8,644.84	21,852.36	333,401.20	18%	60,012.22	19,670.67	413,084.09
	TOTAL OF PART I	AS EVALUATED											
		AS SUBMITTED	0.374			302,904.00	8,644.84	21,852.36	333,401.20		60,012.22	19,670.67	413,084.09
PART I-B		BANK AND SLOPE PROTECTION											
1716(6)	Structural Steel Sheet Piles, Furnished (0.40wide)	AS EVALUATED			ln. m.								
		AS SUBMITTED	29.104	8,028.00		25,432,704.00	48,416.16	438,274.31	25,919,394.47	18%	4,665,491.00	1,529,244.27	32,114,129.74
1716(12)	Structural Steel Sheet Piles, Driven	AS EVALUATED			ln. m.								
		AS SUBMITTED	6.776	8,028.00		315,018.72	565,611.74	5,153,490.31	6,034,120.76	18%	1,086,141.74	356,013.12	7,476,275.62
1716(16)	Steel Sheet Test Piles, Furnished and Driven	AS EVALUATED			ln. m.								
		AS SUBMITTED	0.074	12.00		55,588.62	1,056.82	9,629.09	66,274.54	18%	11,929.42	3,910.20	82,114.15
1710(2)a	Grouted Riprap, Class "A"	AS EVALUATED			cu. m.								
		AS SUBMITTED	6.197	1,803.00		4,368,184.48	691,587.53	459,366.18	5,519,138.19	18%	993,444.87	325,629.15	6,838,212.21
	TOTAL OF PART I-B	AS EVALUATED											
		AS SUBMITTED	42.151			30,171,495.83	1,306,672.24	6,060,759.88	37,538,927.95		6,757,007.03	2,214,796.75	46,510,731.74
	GRAND TOTAL	AS EVALUATED											
		AS SUBMITTED	115.414			73,000,089.25	6,556,206.41	9,500,930.72	89,057,226.38		15,838,274.42	5,244,775.04	110,140,275.83

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVETMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUEITA ROAD, DAPITAN CITY, DAPITAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : A.1.(13) Construction of Field Office for the Engineer (7.00 m. x 8.00 m.)

Quantity : 1.00

Unit of Measurement : L.S.

Output per hour - As Submitted : 1.00

Output per hour - As Evaluated :

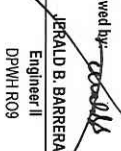
Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1				
Labor				
Const. Foreman	1	120.00	80.95	9,714.15
Skilled Laborers	8	120.00	68.61	56,265.60
Laborers	8	120.00	45.16	43,350.00
Sub - Total for A.1 - As Submitted				109,329.75
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Equipment				
One Bagger Mixer	1	120.00	172.00	20,640.00
Water Truck/Pump	1	8.00	2,450.00	19,600.00
Minor Tools (10% of Labor Cost)				10,932.98
Sub - Total for B.1 - As Submitted				51,172.98
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				160,502.73
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				160,502.73
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
Portland Cement	bag	220.00	287.88	63,334.32
Crushed Gravel	cum.	15.00	913.00	13,695.00
Washed Sand	cum.	25.00	963.00	24,075.00
Reinforcing Steel Bars, Grade 60	kg.	800.00	43.00	34,400.00
The Wire	kg.	35.00	68.00	2,380.00
Lumber	bd ft.	250.00	15.00	3,750.00
Assorted C/N Nails	kg.	20.00	58.00	1,160.00
C/HB6" thick	pc.	700.00	25.00	17,500.00
Reinforcing Steel Bars, Grade 40	kg.	150.00	41.00	6,150.00
D-1 hollow Core Flush Type swing door complete w/ accessories	set	1.00	1,495.20	1,495.20
Angle Bars	kg.	640.00	52.00	33,280.00
Purfls. C-150mm x 50 x 3mm	kg.	35.00	52.00	1,820.00
16mm dia. Cross Bracing	kg.	65.00	50.00	3,250.00
16mm dia. 1mm Buckle	kg.	30.00	230.00	6,900.00
12mm tht. Base Plate	kg.	45.00	50.00	2,250.00
10mm thk. Batten plate	kg.	30.00	50.00	1,500.00
10mm dia. Sag Rod	kg.	15.00	50.00	750.00
20mm dia. X 350 mm Anchor Bolts	pc.	150.00	50.00	7,500.00
Welding Rod	kg.	25.00	135.00	3,375.00
Primer, Zinc Chromate	kg.	5.00	531.00	2,655.00
Pre-painted G.I. Roofing Shlt. Long Span	gal.	55.00	420.00	23,100.00
Pre-painted Flushing Ridge Roll Gx24x 0.50m width	sq.m.	10.00	188.00	1,880.00
Pre-painted flashing GA 24	lb.m.	2.00	189.00	378.00
TeckscREW 1-1/2"	lb.m.	1,000.00	1.25	1,250.00
Roof Sealant	pc.	2.00	230.00	460.00
Rough lumber,Sun dried Tangle	bd ft.	450.00	37.00	16,650.00
Finishing Nails	kg.	5.00	280.00	1,400.00
2 x 40w Fluorescent Lighting Fixtures	kg.	5.00	1,450.00	7,250.00
Porcelain Ceiling Outlet w/ female	pc.	2.00	50.00	100.00
Dugles Convenience Outlet	pc.	170.00	170.00	510.00
Two gang Switch	pc.	3.00	132.00	396.00
3.50mm2 THW	roll	1.00	3,600.00	3,600.00
8.00mm2 THW	m	20.00	69.33	1,386.60
15mm dia. PVC pipe	pc.	20.00	76.00	1,520.00
15mm dia. PVC Coupling	pc.	20.00	27.00	540.00
15mm dia. PVC Elbow	pc.	20.00	26.00	520.00

1/4"m dia. PVC Clamp	pc.	50.00	8.00	400.00
20mm dia. RSC pipe	pc.	4.00	240.00	960.00
20mm dia. RSC Coupling	pc.	3.00	36.00	108.00
20 mm dia. RSC Elbow	pc.	3.00	30.00	90.00
20 mm dia. RSC Clamp	pc.	10.00	18.00	180.00
20mm dia. Service Entrance Cap	pc.	2.00	101.50	203.00
Wire Holder	pc.	2.00	50.00	100.00
Utility Box	pc.	7.00	32.00	224.00
Octagon Box	pc.	50.00	34.00	1,700.00
Electrical Tape	pc.	7.00	28.00	196.00
Panel Boardside Main w/ braches	set	2.00	2,750.00	5,500.00
Water Closet (complete w/ accessories & fittings)	set	1.00	6,062.00	6,062.00
Lavatory (complete w/ fittings & accessories)	set	1.00	4,512.00	4,512.00
1/2" GI pipe S-40	pc.	2.00	292.00	584.00
1/2" Water Faucet	pc.	2.00	165.00	330.00
1/2" Assorted Connector	pc.	8.00	19.00	152.00
4" PVC Series 1000	pc.	1.00	640.00	640.00
2" PVC Series 1000	pc.	1.00	305.00	305.00
4" PVC Assorted Connector	pc.	6.00	77.00	462.00
2" PVC Assorted Connector	pc.	8.00	56.00	448.00
Sub - Total for F.1 - As Submitted				315,326.12
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				475,828.85
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		47,582.88
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
I.1 Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		38,066.31
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)		28,073.90
J.2 Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		-
K.1 Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		509,551.94
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:


 JOSEPHINE B. RENODULIO
 Engineer I
 DPWH-RO9

Checked/Reviewed by:


 JERALD B. BARRERA
 Engineer II
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CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVEITEMENT) ALONG DAPITAN RIVER, TUGUA-POLO SECTION ALONG DIPOL-OROQUEIA ROAD, DAPITAN CITY, DAPITAN CITY, ZAMBOANGA DEL NORTE

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : A.1.1(11) Provision of Furnitures/Fixtures,Equipment & Appliances for the Field ofr the Engineers

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

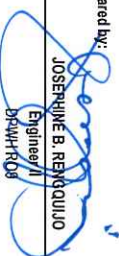
Designation	No. of Persons	No. of Hours	Hourly Rate	1 Amount (PHP)
A.1				
Labor				0.00
				0.00
				0.00
Sub - Total for A.1 - As Submitted				0.00
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
B.1				
Equipment				-
				-
Sub - Total for B.1 - As Submitted				-
Equipment				
Sub - Total for B.2 - As Evaluated				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				-
C.2				
Total (A.2 + B.2) - As Evaluated				-
D.1				
Output per hour - As Submitted				1.00
D.2				
Output per hour - As Evaluated				1.00
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				-
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-

Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
White Board, 3' x 6'	each	1.00	2,000.00	2,000.00
8-sealer Monoblock Dining Table	unit	1.00	5,000.00	5,000.00
Monoblock Chairs	pc.	12.00	500.00	6,000.00
Plastic Pail & Basin	set	2.00	500.00	1,000.00
Aluminum Cookware	set	1.00	3,000.00	3,000.00
Plates, Glass, Spoon & Fork	doz.	1.00	2,000.00	2,000.00
6" Sleeping Bag w/ pillows & blanket	pc.	3.00	5,000.00	15,000.00
Office Table , Jr. Executive type w/ chair	set	1.00	7,000.00	7,000.00
Drawing Table	each	1.00	4,000.00	4,000.00
Computer Table	each	1.00	2,500.00	2,500.00
Cartridge(Computer Printerink)	each	12.00	1,000.00	12,000.00
Bond paper(long)	ream	20.00	350.00	7,000.00
Bond Paper(short)	ream	15.00	300.00	4,500.00
Pal paper	pads	6.00	50.00	300.00
Scotch Tape	rolls	6.00	270.00	1,620.00
Masking Tape	pc.	12.00	50.00	600.00
Batteries Energizer	box	3.00	250.00	750.00
Ballpen	box	2.00	150.00	300.00
Paper Clips	box	2.00	45.00	90.00
Fasteners	box	4.00	50.00	200.00
Eraser(ink, pencil)	box	2.00	120.00	240.00
Staple Wire	box	6.00	150.00	900.00
Cutter Blade	box	3.00	200.00	600.00
Shoe	bottles	6.00	50.00	300.00
Correction Fluid Pen	bottles	12.00	50.00	600.00
Brown Envelope, Long & Short	doz.	6.00	110.00	660.00
Expanded Envelope, long	doz.	6.00	130.00	780.00
Colored Pencil, 12s	set	6.00	150.00	900.00
Folder, short	doz.	6.00	100.00	600.00
Folder, long	doz.	6.00	120.00	720.00
Penel pen(Assorted Colors)	pcs.	12.00	50.00	600.00
White Board Marker(Assorted Colors)	pcs.	12.00	90.00	1,080.00
Letter Envelope, White (long)	box	2.00	130.00	260.00
Data File Folder	pcs.	6.00	150.00	900.00
Sign Pen, Assorted	doz.	2.00	500.00	1,000.00
Laptop	unit	1.00	80,000.00	80,000.00
Computer Printer (Scanner & Photocopier)	unit	1.00	8,000.00	8,000.00
Digital Camera	unit	1.00	10,000.00	10,000.00
USB (32 GB)	unit	2.00	600.00	1,200.00
Water dispenser	unit	1.00	5,000.00	5,000.00

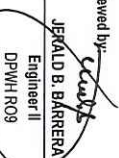
F.1

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

Prepared by:


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CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVEMENT) ALONG DAPIYAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUETA ROAD, DAPIYAN CITY, DAPIYAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

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

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Service Driver	1	3,592.00	58.61	210,527.12
	Sub - Total for A.1 - As Submitted				210,527.12
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				1
	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
B.1	Equipment				
	Service Vehicle	1	-		-
	Sub - Total for B.1 - As Submitted				-
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				-
	Sub - Total for B.2 - As Submitted				-
C.1	Total (A.1 + B.1) - As Submitted				210,527.12
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				210,527.12
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Diesel Fuel	liters	4,490.00	51.00	228,990.00
	Engine Oil & Lubricants	l.s.	1.00	34,348.50	34,348.50
	Tires	pcs.	5.00	9,500.00	47,500.00
F.2	Spare Parts	l.s.	1.00	45,798.00	45,798.00
	Sub - Total for F.1 - As Submitted				-
	Materials				356,636.50
G.1	Sub - Total for F.2 - As Evaluated				
	Direct Unit Cost (E.1 + F.1) - As Submitted				567,163.62
	G.2				1
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				-
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				56,716.56
I.1	Contractor's Profit (CP) - As Submitted				-
I.2	Contractor's Profit (CP) - As Evaluated				31,194.00
J.1	Value Added Tax (VAT) - As Submitted				-
J.2	Value Added Tax (VAT) - As Evaluated				655,073.88
K.1	Total Unit Cost - As Submitted				-
K.2	Total Unit Cost - As Evaluated				-

Prepared by:


JOSEPHINE B. RENBOULO
Engineer II
DPWH RO9

Checked/Reviewed by:


JERALD B. BARRERA
Engineer II
DPWH RO9

**CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVEMENT) ALONG DAPITAN RIVER, TUTUJA-POLO SECTION ALONG DIPOLOS-OROQUIETA ROAD, DAPITAN CITY, DAPITAN CITY , ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)**

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


Quantity : 0.52
Unit of Measurement : km.
Output per hour - As Submitted : 1.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
For Fieldworks:				0.00
Geodetic Engineer	1	27.00	104.16	2,812.42
Skilled Laborers	1	27.00	58.61	1,582.47
Laborers	2	27.00	45.16	2,438.44
For Office Works:				
Geodetic Engineer	1	80.00	104.16	8,333.10
Skilled Laborers	1	80.00	58.61	4,688.80
				0.00
Sub - Total for A.1 - As Submitted				19,855.23
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Equipment				
Total Station Complete w/ accessories	1	27.00	100.00	2,700.00
				-
Sub - Total for B.1 - As Submitted				2,700.00
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				22,555.23
C.2 Total (A.2 + B.2) - As Evaluated				-
D.1 Output per hour - As Submitted				1.00
D.2 Output per hour - As Evaluated				1.00
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				22,555.23
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
F.1				
Standard Stake Plan (800 mm x 910 mm plotting)	sheets	23.00	51.00	1,173.00
blue print as stake plan	pcs.	115.00	40.00	4,600.00
miscellaneous(3% of Materials)			288.65	288.65
				-
Sub - Total for F.1 - As Submitted				6,061.65
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				28,615.88
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		2,861.69
H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated		15% / 12% / 10% / 8% of G.2		-
I.1 Contractor's Profit (CP) - As Submitted		10% / 8% of G.1		2,289.35
I.2 Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
J.1 Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		1,668.40
J.2 Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		-
K.1 Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		35,456.31
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:


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Engineer II
DPWH RO9

Checked/Reviewed by:


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DPWH RO9


**CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVIEWMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG DIPOLONG-OROQUIETA ROAD, DAPITAN CITY,
DAPITAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : B.5 Project Billboard

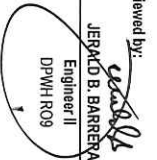
Quantity : 4.00
Unit of Measurement : each
Output per hour - As Submitted : 1.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
				0.00
A.1				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	1	1.00	58.61	58.61
Laborers	2	1.00	45.16	90.31
				0.00
Sub - Total for A.1 - As Submitted				229.87
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
B.1				
Equipment				
Sub - Total for B.1 - As Submitted				
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				229.87
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				229.87
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
F.1				
Marine Plywood (3/16" thk. 4' x 8')	pc.	1.00	435.00	435.00
Taraulin (4' x 8')	pc.	1.00	800.00	800.00
Assorted Sizes lumber	bd./ft.	50.00	42.00	2,100.00
Assorted CW Nails	kg.	1.00	80.00	80.00
Sub - Total for F.1 - As Submitted				3,415.00
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				3,644.87
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	384.49
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	291.59
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)	215.05
J.2				
Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	
K.1				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	4,516.00
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	

Prepared by:


JOSEPHINE B. BENGOALDO
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DPWH RO9

Checked/Reviewed by:


JERALD B. BARREIRA
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DPWH RO9

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVETMENT) ALONG DAPITAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPITAN CITY, DAPITAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

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

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
Safety Proclitioner	1	898.00	58.61	52,631.78
First Aider	1	3,592.00	45.16	162,214.72
				0.00
				0.00
Sub - Total for A.1 - As Submitted				0.00
Labor				214,846.50
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
B.1				
Equipment				-
				-
Sub - Total for B.1 - As Submitted				-
Equipment				-
B.2				
Sub - Total for B.2 - As Evaluated				1
C.1				214,846.50
Total (A.2 + B.2) - As Submitted				
C.2				-
D.1				1.00
Output per hour - As Evaluated				
E.1				214,846.50
Direct Unit Cost (C.1 + D.1) - As Submitted				
E.2				-
Direct Unit Cost (C.2 + D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
				-
F.1				
Rubber Boots/Men, long w/ Steel Toe, Black	pc.	30.00	500.00	15,000.00
Working Gloves (Maong Materials)	pc.	30.00	50.00	1,500.00
Rain Coats (Reinforced-Hip)	bd.ft.	30.00	300.00	9,000.00
First Aide Kit (Complete medicines & tools)	set.	1.00	2,500.00	2,500.00
Band-aids/Signboards	pcs.	15.00	1,400.00	21,000.00
				-
Sub - Total for F.1 - As Submitted				49,000.00
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				263,846.50
Direct Unit Cost (E.1 + F.1) - As Submitted				
G.2				-
Direct Unit Cost (E.2 + F.2) - As Evaluated				26,384.55
H.1			15% / 12% / 10% / 8% of G.1	-
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.2	-
H.2			10% / 8% of G.1	21,107.72
I.1			10% / 8% of G.2	-
Contractor's Profit (CP) - As Evaluated			5% of (G.1 + H.1 + I.1)	15,565.54
J.1			5% of (G.2 + H.2 + J.2)	-
Value Added Tax (VAT) - As Evaluated			(G.1 + H.1 + I.1 + J.1)	326,905.81
J.2			(G.2 + H.2 + I.2 + J.2)	-
K.1				
Total Unit Cost - As Submitted				
K.2				
Total Unit Cost - As Evaluated				

Prepared by: JOSEPHINE B. REMOUJON
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DPWH RO9

Checked/Reviewed by: JERALD B. BARRERA
Engineer II
DPWH RO9

**CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVIEWMENT) ALONG DAPTAN RIVER, TUTUPA-POLO SECTION ALONG DIPOLOG-OROQUETA ROAD, DAPTAN CITY, DAPTAN CITY , ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)**

1

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				0.00
Labor				
Sub - Total for A.1 - As Submitted				0.00
A.2				
Sub - Total for A.2 - As Evaluated				
B.1				
Equipment				
Low Bed Trailer	2	28.00	4,255.38	238,301.28
Sub - Total for B.1 - As Submitted				-
B.2				
Equipment				
Sub - Total for B.2 - As Evaluated				238,301.28
C.1				
Total (A.1 + B.1) - As Submitted				238,301.28
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				238,301.28
E.2				
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				-
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				238,301.28
G.2				
Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	23,830.13
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	19,064.10
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)	14,039.78
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)	295,255.29
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

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CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVEMENT) ALONG DAPIAN RIVER, TUTUBA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPIAN CITY, DAPIAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 104(2)a Embankment from Borrow

Quantity : 1,597.00

Unit of Measurement : cum.

Output per hour - As Submitted : 50.00

Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
Excavation Work:				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
				0.00
				0.00
Sub - Total for A.1 - As Submitted				172.26
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Water Truck	1	0.25	2,450.00	612.50
				-
				-
				-
Sub - Total for B.1 - As Submitted				4,631.50
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				4,803.76
C.2				
Total (A.2 + B.2) - As Evaluated				-
D.1				
Output per hour - As Submitted				50.00
D.2				
Output per hour - As Evaluated				50.00
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				96.08
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Materials				
Common Borrow(w/ 25% shrinkage factor)	cum.	1.25	506.50	633.13
				-
				-
				-
Sub - Total for F.1 - As Submitted				633.13
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				729.20
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		72.92
H.1				
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		58.34
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)		43.02
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)		903.48
K.2				
Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

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Checked/Reviewed by:

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 DPWH RO9

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD
CONTROL STRUCTURE (REYEMENT) ALONG DAPIYAN RIVER, TUTUA-POLO SECTION ALONG DIPOLONG-OROQUETA ROAD, DAPIYAN CITY,
DAPITAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

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

Quantity : 711.00
Unit of Measurement : cum.
Output per hour - As Submitted : 50.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1				
Labor				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
				0.00
				0.00
Sub - Total for A.1 - As Submitted				172.26
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
Road Grader	1	1.00	2,173.00	2,173.00
Road Roller	1	1.00	1,846.00	1,846.00
Water Truck	1	0.25	2,450.00	612.50
				-
				-
				-
Sub - Total for B.1 - As Submitted				4,631.50
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				4,803.76
C.2				
Total (A.2 + B.2) - As Evaluated				-
D.1				
Output per hour - As Submitted				50.00
D.2				
Output per hour - As Evaluated				50.00
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				96.08
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Materials				
Aggregate Subbase Course	cu.m.	1.15	831.00	955.65
(w/ 15% shrinkage)				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				955.65
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				-
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				1,051.73
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	105.17
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	84.14
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)	62.05
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)	1,303.09
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

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DPWH R09

Checked/Reviewed by:

JEREMIO R. BARBERA
Engineer II
DPWH R09

DETAILED UNIT PRICE ANALYSIS (DUPA)

Structure Excavation

4,592.00
cu.m.
20.00

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
A.1	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Laborers	3	1.00	45.16	135.47
	Sub - Total for A.1 - As Submitted				217.42
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				
	Dump Truck	2	1.00	1,420.00	2,840.00
	Backhoe	1	1.00	1,537.00	1,537.00
B.2	Minor Tools (10 % of Labor)				2.17
	Sub - Total for B.1 - As Submitted				4,379.17
B.2	Equipment				
	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				4,596.59
	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				20.00
	Output per hour - As Evaluated				20.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				229.83
	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				229.83
	Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	22.88
	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	18.39
	Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
J.1	Value Added Tax (VAT) - As Submitted			5% of (G.2 + H.1 + I.1)	13.56
	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)	284.76
	Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Checked/Reviewed by:

JERALD R. BARRETT

Engineer II
DPWH ROSS

DETAILED UNIT PRICE ANALYSIS (DUPA)

Reinforcing Steel Bar, (Grade 40)

45,000.00
kg.
180.00

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Skilled Laborer	2	1.00	58.61	117.22
	Laborers	8	1.00	45.16	361.25
Sub - Total for A.1 - As Submitted					549.43
A.2	Labor				
Sub - Total for A.2 - As Evaluated					
B.1	Equipment				
	Bar Cutter	1	1.00	219.75	219.75
	Bar Bender	1	1.00	351.50	351.50
	Cargo Truck	1	0.15	121.00	18.15
Sub - Total for B.1 - As Submitted					589.40
B.2	Equipment				
Sub - Total for B.2 - As Evaluated					
C.1	Total (A.1 + B.1) - As Submitted				1,068.87
	C.2 Total (A.2 + B.2) - As Evaluated				-
	D.1 Output per hour - As Submitted				180.00
	D.2 Output per hour - As Evaluated				180.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted				5.94
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Tie Wire	kg.	0.021	68.00	1.43
	Reinforcing Steel Bar/Grade 40	kg.	1.05	45.00	47.25
F.1					-
					-
					-
					-
F.1					-
					-
					-
					-
Sub - Total for F.1 - As Submitted					48.68
F.2	Materials				
Sub - Total for F.2 - As Evaluated					
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				54.62
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				5.46
H.2	Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				15% / 12% / 10% / 8% of G.1
I.1	Contractor's Profit (CP) - As Submitted				10% / 8% of G.1
I.2	Contractor's Profit (CP) - As Evaluated				10% / 8% of G.2
J.1	Value Added Tax (VAT) - As Submitted				5% of (G.1 + H.1 + I.1)
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)
K.2	Total Unit Cost - As Evaluated				(G.2 + H.2 + I.2 + J.2)

Checked/Reviewed by _____

~~GERALD B. BARRERA~~

Engineer II
DPWH RO9

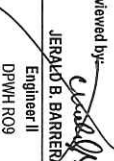
CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD
CONTROL STRUCTURE (REVIEWMENT) ALONG DAPITAN RIVER, TUTUPA-POLO SECTION ALONG DIPOL-OG-OROQUIETA ROAD, DAPITAN CITY,
DAPITAN CITY , ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 404(1)b Reinforcing Steel Bar, (Grade 60)

Quantity : 7,598.00
Unit of Measurement : kg.
Output per hour - As Submitted : 180.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
Const. Foreman	1	1.00	80.95	80.95
A.1 Skilled Laborer	2	1.00	58.61	117.22
Laborers	8	1.00	45.16	361.25
Sub - Total for A.1 - As Submitted				479.47
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment				
B.1				
Bar Cutter	1	1.00	219.75	219.75
Bar Bender	1	1.00	351.50	351.50
Cargo Truck	1	0.15	121.00	18.15
Sub - Total for B.1 - As Submitted				589.40
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
C.2				
D.1				
D.2				
E.1				
E.2				
F.1				
F.2				
K.1				
K.2				

Prepared by: 
JOSEPHINE B. BENIGNO
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DPWH RO9

Checked/Reviewed by: 
JERALD B. BARRERA
Engineer II
DPWH RO9

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVENMENT) ALONG DAPITAN RIVER, TUTUPA-POLO SECTION ALONG DIPOLGO-OROQUETA ROAD, DAPITAN CITY, DAPITAN CITY , ZAMBANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 405(1)a3 Structural Concrete, Class "A"

Quantity : 1,835.00
Unit of Measurement : cum.
Output per hour - As Submitted : 1.40
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	4	1.00	58.61	234.44
Laborers	8	1.00	45.16	361.25
A1				
Installation/Removal of Formworks				
Skilled Laborers	4	1.00	58.61	234.44
Laborers	8	1.00	45.16	361.25
For Provision of Asphalt Sealant @ every grove				
Const. Foreman	1	1.00	80.95	80.95
Laborers	2	1.00	45.16	90.31
			0.00	0.00
Sub - Total for A.1 - As Submitted				1,362.64
Labor				
A2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Equipment				
One Bagger Mixer	1	1.00	172.00	172.00
Concrete Vibrator	1	1.00	91.25	91.25
Water Truck/Pump	1	0.10	2,450.00	245.00
B.1				
For Provision of Asphalt Sealant @ every grove				
Asphalt Kettle/Drum	1	1.00	10.00	10.00
Minor Tools (5% of Labor Cost)				68.13
Sub - Total for B.1 - As Submitted				586.38
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				
Total (A.1 + B.1) - As Submitted				1,949.03
C.2				
Total (A.2 + B.2) - As Evaluated				
D.1				
Output per hour - As Submitted				1.40
D.2				
Output per hour - As Evaluated				1.40
E.1				
Direct Unit Cost (C.1 + D.1) - As Submitted				1,392.16
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
Lumber	kg.	17.50	42.00	735.00
Marine Plywood	L.	0.40	853.00	341.20
Assorted CWN	L.	0.70	58.00	40.60
Portland Cement	bag	9.50	287.88	2,734.89
Fine Aggregates	cum.	0.50	963.00	481.50
Coarse Aggregates	cum.	1.00	913.00	913.00
Blown Asphalt (Vol.=0.04 cum.)	kg.	2,249	274.18	616.66
Sub - Total for F.1 - As Submitted				5,862.85
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				
Direct Unit Cost (E.1 + F.1) - As Submitted				7,295.01
G.2				
Direct Unit Cost (E.2 + F.2) - As Evaluated				
H.1				
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted			15% / 12% / 10% / 8% of G.1	725.50
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	580.40
I.2				
Contractor's Profit (CP) - As Evaluated			10% / 8% of G.2	-
J.1				
Value Added Tax (VAT) - As Submitted			5% of (G.1 + H.1 + I.1)	428.05
J.2				
Value Added Tax (VAT) - As Evaluated			5% of (G.2 + H.2 + I.2)	-
K.1				
Total Unit Cost - As Submitted			(G.1 + H.1 + I.1 + J.1)	8,988.86
K.2				
Total Unit Cost - As Evaluated			(G.2 + H.2 + I.2 + J.2)	-

Prepared by:

JOSEPHINE B. RIBAGUINO
Engineer II
DPWH RO9

Checked/Reviewed by:

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Engineer II
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CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD
CONTROL STRUCTURE (REVENMENT) ALONG DAPIAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPIAN CITY,
DAPITAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 508(1) Handlaid Rock Embankment

Quantity : 17,500.00
Unit of Measurement : cum.
Output per hour - As Submitted : 3.125
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Laborers	8	1.00	45.16	361.25
A.1				
				0.00
				0.00
Sub - Total for A.1 - As Submitted				479.47
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	† Amount (Php)
Equipment				
				-
				-
				-
B.1				
				-
				-
				-
				-
Minor Tools (10 % of Labor Cost)				47.95
Sub - Total for B.1 - As Submitted				47.95
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				527.42
C.2 Total (A.2 + B.2) - As Evaluated				-
D.1 Output per hour - As Submitted				3.13
D.2 Output per hour - As Evaluated				3.13
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				168.77
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
				-
Boulders	cum.	1.05	1,187.00	1,246.35
F.1				
				-
				-
				-
Sub - Total for F.1 - As Submitted				1,246.35
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				1,415.12
G.2 Direct Unit Cost (E.2 + F.2) - As Evaluated				-
H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted		15% / 12% / 10% / 8% of G.1		141.51
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		113.21
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)		83.49
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)		1,753.34
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

JOSEPHINE B. RENGQUJO
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DPWH RO9

Checked/Reviewed by:

JERALDO B. BARRERA
Engineer II
DPWH RO9

**CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD
DAPTAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)**

Item No. / Description : 71512) Separation Geotextile

Quantity : 1,803.00
Unit of Measurement : sq.m.
Output per hour - As Submitted : 100.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Laborers	8	1.00	45.16	361.25
A.1				
				0.00
				0.00
				0.00
Sub - Total for A.1 - As Submitted				479.47
Labor				0.00
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Cargo Truck/Delivery Truck	1	1.00	1,212.00	1,212.00
B.1				
				-
				-
				-
				-
				-
Sub - Total for B.1 - As Submitted				1,212.00
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1				1,691.47
C.2				-
D.1				100.00
D.2				100.00
E.1				16.91
E.2				-
Materials	Unit	Quantity	Unit Cost	Amount (Php)
Filler Cloth	sq.m.	1.05	160.00	168.00
Sub - Total for F.1 - As Submitted				168.00
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1				184.91
G.2				-
H.1			15% / 12% / 10% / 8% of G.1	18.49
H.2			15% / 12% / 10% / 8% of G.2	-
I.1			10% / 8% of G.1	14.79
I.2			10% / 8% of G.2	-
J.1			5% of (G.1 + H.1 + I.1)	10.91
J.2			5% of (G.2 + H.2 + I.2)	-
K.1			(G.1 + H.1 + I.1 + J.1)	229.11
K.2			(G.2 + H.2 + I.2 + J.2)	-

Prepared By:

JOSEPHINE B. REMOSOLLO
Engineer II

Checked/Reviewed by:

JERALDO B. BARRERA
Engineer II

DETAILED UNIT PRICE ANALYSIS (DUPA)

1704(1)a Embankment

:	7,545.00
:	cu.m.
:	50.00
:	
:	

	Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
A.1	Labor				
	Const. Foreman	1	1.00	80.95	80.95
	Laborers	2	1.00	45.16	90.31
	Sub - Total for A.1 - As Submitted				172.26
A.2	Labor				
	Sub - Total for A.2 - As Evaluated				†
B.1	Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
	Equipment				
	Road Grader	1	1.00	2,173.00	2,173.00
	Road Roller	1	1.00	1,846.00	1,846.00
	Water Truck	1	0.25	2,450.00	612.50
Sub - Total for B.1 - As Submitted					-
	Equipment				4,631.50
B.2	Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted				4,803.76
C.2	Total (A.2 + B.2) - As Evaluated				-
D.1	Output per hour - As Submitted				50.00
D.2	Output per hour - As Evaluated				50.00
E.1	Direct Unit Cost (C.1 ÷ D.1) - As Submitted				96.08
E.2	Direct Unit Cost (C.2 ÷ D.2) - As Evaluated				-
F.1	Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
	Materials				
	Embankment materials(w/ 25% shrinkage factor)	cum.	1.25	506.50	633.13
F.2	Sub - Total for F.1 - As Submitted				633.13
	Materials				
	Sub - Total for F.2 - As Evaluated				729.20
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated				72.92
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		58.34
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)		43.02
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)		903.48
K.2	Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Checked/Reviewed by: [Signature]

JERALD R. BARRERA

Engineer II

DPWH RO9

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVEMENT) ALONG DAPTAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPTAN CITY, DAPTAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 1716(f) Structural Steel Sheet Piles, Furnished (0.40wide)

Quantity : 8,028.00
Unit of Measurement : In.m.
Output per hour - As Submitted : 48.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Labors	2	1.00	45.16	90.31
A.1				
				0.00
				0.00
Sub - Total for A.1 - As Submitted				289.48
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
Truckmounted Crane	1	1.00	2,606.00	2,606.00
B.1				
				-
				-
				-
				-
Minor Tools (5% of Labor Cost)				14.47
Sub - Total for B.1 - As Submitted				2,620.47
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				1
C.1				2,909.96
Total (A.1 + B.1) - As Submitted				-
G.2				48.00
D.1				48.00
D.2				60.92
E.1				-
Direct Unit Cost (C.1 + D.1) - As Submitted				
E.2				
Direct Unit Cost (C.2 + D.2) - As Evaluated				
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
Steel Sheet Pile FY50	kg.	48.00	66.00	3,168.00
F.1				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				3,168.00
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				3,228.62
G.1				322.66
Direct Unit Cost (E.1 + F.1) - As Submitted				-
G.2				288.29
Overhead, Contingencies & Miscellaneous (OCM) - As Submitted				-
H.1				190.49
Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated				-
H.2				4,000.27
Contractor's Profit (CP) - As Submitted				-
I.1				-
Value Added Tax (VAT) - As Submitted				-
J.1				-
Value Added Tax (VAT) - As Evaluated				-
J.2				-
Total Unit Cost - As Submitted				-
K.1				-
Total Unit Cost - As Evaluated				-

Prepared by:

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Engineer I
DPWH RO9

Checked/Reviewed by:

GERALD B. BARBERA
Engineer II
DPWH RO9

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVEITEMENT) ALONG DAPITAN RIVER, TUPUA-POLO SECTION ALONG DIPOLOG-ORROQUIETA ROAD, DAPITAN CITY, DAPITAN CITY, ZAMBOANGA DEL NORTE

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./Description : 1716(12) Structural Steel Sheet Piles, Driven

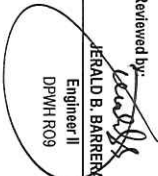
Quantity : 8,028.00
Unit of Measurement : In.m.
Output per hour - As Submitted : 10.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	6	1.00	58.61	351.66
Laborers	6	1.00	45.16	270.94
A.1				
				0.00
				0.00
				0.00
Sub - Total for A.1 - As Submitted				704.55
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
Equipment				
Truck Mounted Crane	1	1.00	2,606.00	2,606.00
Vibro Hammer	1	1.00	2,123.00	2,123.00
Gen. Set	1	1.00	1,296.67	1,296.67
Welding Machine	1	1.00	371.00	371.00
Cutting Outfit	1	0.50	45.45	22.73
				-
				-
Sub - Total for B.1 - As Submitted				6,419.40
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				7,123.94
C.2 Total (A.2 + B.2) - As Evaluated				-
D.1 Output per hour - As Submitted				10.00
D.2 Output per hour - As Evaluated				10.00
E.1 Direct Unit Cost (C.1 + D.1) - As Submitted				712.39
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
Welding Rod	kg	0.024	135.00	3.24
Oxygen/Acetylene	L	0.0096	3,750.00	36.00
F.1				-
				-
				-
				-
				-
Sub - Total for F.1 - As Submitted				39.24
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				751.63
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		75.16
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		60.13
I.2 Contractor's Profit (CP) - As Evaluated		10% / 8% of G.2		-
J.1 Value Added Tax (VAT) - As Submitted		5% of (G.1 + H.1 + I.1)		44.35
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)		931.27
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

Prepared by:


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DPWH-RO9

CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVEMENT) ALONG DAPTAN RIVER, TUTUA-POLO SECTION ALONG DIPOLGO-OROQUIETA ROAD, DAPTAN CITY, DAPTAN CITY, ZAMBANGA DEL NORTE

DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No./ Description : 1716(16) Steel Sheet Test Piles, Furnished and Driven

Quantity : 12.00
Unit of Measurement : ln.m.
Output per hour - As Submitted : 8.00
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (Php)
Labor				
Const. Foreman	1	1.00	80.95	80.95
Skilled Laborers	6	1.00	58.61	351.66
Laborers	6	1.00	45.16	270.94
A.1				
				0.00
				0.00
Sub - Total for A.1 - As Submitted				704.55
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Equipment	No. of Units	No. of Hours	Hourly Rate	Amount (Php)
Truck Mounted Crane	1	1.00	2,605.00	2,605.00
Vibro Hammer	1	1.00	2,123.00	2,123.00
Gen. Set	1	1.00	1,296.67	1,296.67
Welding Machine	1	1.00	371.00	371.00
Cutting Outfit	1	0.50	45.45	22.73
				-
Sub - Total for B.1 - As Submitted				6,419.40
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1	Total (A.1 + B.1) - As Submitted			7,123.94
C.2	Total (A.2 + B.2) - As Evaluated			-
D.1	Output per hour - As Submitted			8.00
D.2	Output per hour - As Evaluated			8.00
E.1	Direct Unit Cost (C.1 + D.1) - As Submitted			880.49
E.2	Direct Unit Cost (C.2 + D.2) - As Evaluated			-
Name and Specification	Unit	Quantity	Unit Cost	Amount (Php)
Materials				
Coco logs	m.	0.85	520.00	442.00
Good Lumber	bd.ft.	4.00	36.00	144.00
Nail/Spike	kg.	0.16	43.00	6.88
Sheet Sheet Pile	m.	1.00	4,000.27	4,000.27
Welding Rod	kg.	0.024	135.00	3.24
Oxy/Acetylene	set	0.0096	3,750.00	36.00
				-
Sub - Total for F.1 - As Submitted				4,632.39
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1	Direct Unit Cost (E.1 + F.1) - As Submitted			5,522.88
G.2	Direct Unit Cost (E.2 + F.2) - As Evaluated			-
H.1	Overhead, Contingencies & Miscellaneous (OCM) - As Submitted	15% / 12% / 10% / 8% of G.1		552.29
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		441.83
I.2	Contractor's Profit (CP) - As Evaluated	10% / 8% of G.2		-
J.1	Value Added Tax (VAT) - As Submitted	5% of (G.1 + H.1 + I.1)		325.85
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)		6,842.85
K.2	Total Unit Cost - As Evaluated	(G.2 + H.2 + I.2 + J.2)		-

Prepared by:

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Checked/Reviewed by:

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CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS- CONSTRUCTION/EXTENSION OF FLOOD CONTROL STRUCTURE (REVIEWMENT) ALONG DAPTAN RIVER, TUTUA-POLO SECTION ALONG DIPOLOG-OROQUIETA ROAD, DAPTAN CITY, DAPTAN CITY, ZAMBOANGA DEL NORTE
DETAILED UNIT PRICE ANALYSIS (DUPA)

Item No. / Description : 1710(2)a Grouted Riprap, Class "A"

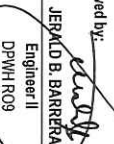
Quantity : 1,803.00
Unit of Measurement : cum.
Output per hour - As Submitted : 1.25
Output per hour - As Evaluated :

Designation	No. of Persons	No. of Hours	Hourly Rate	Amount (PHP)
A.1				
Labor				
Cont. Foreman	1	1.00	80.95	80.95
Skilled Laborers	2	1.00	58.61	117.22
Labors	8	1.00	45.16	361.25
				0.00
				0.00
Sub - Total for A.1 - As Submitted				479.47
Labor				
A.2				
Sub - Total for A.2 - As Evaluated				
Name and Capacity	No. of Units	No. of Hours	Hourly Rate	Amount (PHP)
Equipment				
One Bagger Mixer	1	1.00	172.00	172.00
Water Truck/Pump	1	0.05	2,450.00	122.50
				-
				-
				-
				-
Minor Tools (5 % of Labor Cost)				23.97
Sub - Total for B.1 - As Submitted				318.47
Equipment				
B.2				
Sub - Total for B.2 - As Evaluated				
C.1 Total (A.1 + B.1) - As Submitted				797.94
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				638.35
E.2 Direct Unit Cost (C.2 + D.2) - As Evaluated				-
Name and Specification	Unit	Quantity	Unit Cost	Amount (PHP)
Materials				
Portland Cement	bag	3.00	287.88	863.65
Fine Aggregates	cum.	0.250	983.00	240.75
Gravel Fill	cum.	0.015	913.00	13.70
50mm. (2") PVC Pipe	m.	0.30	106.33	31.90
Filter Cloth	sq.m.	0.015	160.00	2.40
Boulders	cum.	1.05	1,187.00	1,246.35
				-
Misc. (1% of Materials Cost)				23.99
Sub - Total for F.1 - As Submitted				2,422.73
Materials				
F.2				
Sub - Total for F.2 - As Evaluated				
G.1 Direct Unit Cost (E.1 + F.1) - As Submitted				3,051.09
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		306.11
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		244.89
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)		180.60
J.2 Value Added Tax (VAT) - As Evaluated		5% of (G.2 + H.2 + I.2)		-
K.1 Total Unit Cost - As Submitted		(G.1 + H.1 + I.1 + J.1)		3,792.69
K.2 Total Unit Cost - As Evaluated		(G.2 + H.2 + I.2 + J.2)		-

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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
Construction of Field Office for the Engineer (7.0m. X 9.0 m.)	220.00
T O T A L	78,330.00

Quantity = **78,330.00** Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga del Norte 3RD DEO	20.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :

say 20.00 km.

Delivery Charge = P	0.120	x	20.00
= P	2.40	/ bag	

*Delivery Truck : 78,330.00 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.

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

$$\begin{array}{rcl} \text{Speed when loaded} & : & 30.00 \text{ kph} \\ \text{Speed when unloaded} & : & 40.00 \text{ kph} \\ \text{Loaded running} & = \frac{20.00}{30.00} \times 60 & = 40.00 \text{ mins.} \end{array}$$

$$\text{Unloaded running} = \frac{20.00 \times 60}{40.00} = 30.00 \text{ mins.}$$

Loading and Unloading : 45.00 mins.

Capacity of Dumptruck : 8.00 cu.m.

: 500.00 bags

Total Cycle time : 115.00 mins.

$$\text{No. of trips for Dumptruck per day} = \frac{8.0 \times 60.00}{115.00} = 4.17 \text{ say } 4.17 \text{ trip}$$

$$\text{Dumptruck daily output} = 500 \times 4.17 = 2,086.96 \text{ cu.m.}$$

$$\text{Using (4) Dumptrucks} = 4 \times 2086.96 = 8,347.83 \text{ cu.m.}$$

$$1. \text{ No. of days for Delivery Truck} = \frac{78,330.00}{8,347.83} = 9.38 \text{ say } 9.38 \text{ days}$$

$$2. \text{ No. of days for Labor, for unloading} = \text{complimentary to D. Truck days} = 9.38 \text{ days}$$

DELIVERY COST :

78,330.00 - Bags, Portland Cement	@ P 2.40	/ bag	= P 187,992.00
Sub - Total			P 187,992.00

LABOR :

1 - Foreman	@ P 611.92 /day	x 9.38 days = P 5,741.82
10 - Laborers, unloading	@ P 342.24 /day	x 9.38 days = P 32,113.34
Sub - Total		P 37,855.16

MATERIALS :

78,330.00 - Bags, Portland Cement	@ P 285.00	/ bag	= P 22,324,050.00
Sub - Total			P 22,324,050.00

Estimated Quantity	78,330.00 Bags
Unit Cost	P 287.88 / Bag, say P 287.88 / Bag
Grand Total	P 22,549,897.16
Delivery Cost	P 187,992.00

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 Dumptruck

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

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

Speed when loaded	:	30.00	kph
Speed when unloaded	:	40.00	kph
Loaded running	=	$\frac{5.00 \times 60}{30.00}$	= 10.00 mins.
Unloaded running	=	$\frac{5.00 \times 60}{40.00}$	= 7.50 mins.
Loading and Unloading	:	5.00	mins.
Capacity of Dumptruck	:	10.00	cu.m.
Total Cycle time	:	22.50	mins.
No. of 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.

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

EQUIPMENT USED : (2009 ACEL RATES)

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

Estimated Quantity	1,000.00 cu.m.
Unit Cost	P 10.65 / cu. m./km. (Unit Cost, Hauling per cu.m,per km.)
Grand Total	P 53,250.00
Equipment	P 53,250.00
Labor	P
Materials	P

ZAMBOANGA DEL NORTE 3RD DEO

	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:	20.00 X	10.65 =	213.00 +	750.00 =	963.00
Cost of Coarse Aggregates:	20.00 X	10.65 =	213.00 +	700.00 =	913.00
Cost of Item 200 Materials:	20.00 X	10.65 =	213.00 +	618.00 =	831.00
Cost of Item 201 Materials:	20.00 X	10.65 =	213.00 +	650.00 =	863.00
Cost of Item 300 Materials:	20.00 X	10.65 =	213.00 +	775.00 =	988.00
Cost of Boulders:	20.00 X	10.65 =	213.00 +	974.00 =	1,187.00
Cost of Embankmen, Common Borrow:	10.00 X	10.65 =	106.50 +	400.00 =	506.50
Cost of Embankmen, Selected Borrow:	20.00 X	10.65 =	213.00 +	500.00 =	713.00