

Republic of the Philippines
Department of Public Works and Highways

Bureau : DPWH
Region : IX
District/City : Zamboanga City

PROGRAM OF WORK
(For all types of Project)

Date :

NAME/LOCATION OF PROJECT : CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE	Appropriation : P 105,000,000.00 Source of Funds : CY-2018 Issued Obligated Authority : Released : Cal. Days to Complete : ~ 204 Calendar Days Desirable Starting Date : Upon Approval Mode of Implementation :
PROJECT CATEGORY : FLOOD CONTROL	
PROJECT DESCRIPTION : Scope of Work : Construction of Flood Control	NET LENGTH : Upstream: Beg. Of Project 0 + 000.00 End Of Project 0 + 340.00 443.50 Beg. Of Project 0 + 640.00 End Of Project 0 + 743.5 Net Length : 443.50 In.m.

MINIMUM EQUIPMENT REQUIREMENT :				TECHNICAL PERSONNEL REQUIRED :	
Description	No.	Description	No.	Description	No.
Dumptruck (10-Wheeler)	12	Water Pump	1	Project Engineer	1
Drop Hammer	4	Cutting Outfit	1	Materials Engineer	1
Crawler Crane	2	Concrete Vibrator	2	Geometric Surveyor	1
Truck mounted Crane	1	Air compressor	2	Foreman	1
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1
Road Roller	2	Bar Bender	1	Mason	10
Payloader	4	Conc. Mixer (1-Bagger)	2	Carpenter	6
Water Truck	2	Plate Compactor	1	Laborers (Skilled)	10
Water Tank	2	Jack Hammer	1	Laborers (Unskilled)	20
Backhoe with breaker	1	Diesel Hammer	1		
Vibro Hammer	1	Service Truck	1		

ESTIMATED COST OF PROPOSED WORK						
ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART B - OTHER GENERAL REQUIREMENTS						
A.1.1 (3)	Construction of Field Office for the Engineer	0.589	L. S.	1.00	481,851.56	481,851.56
A.1.1 (11)	Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office for the Engineer	0.240	L. S.	1.00	196,288.00	196,288.00
A.1.2 (5)	Operation & Maintenance of Go'vt Service Vehicle	0.372	L.S.	1.00	304,444.80	304,444.80
B.4(1)	Construction Survey and Staking	0.058	k.m.	0.444	47,310.04	106,674.27
B.5	Project Billboard	0.009	units	2.00	7,538.90	3,769.45
B.7	Occupational Safety and Health Program	0.479	L. S.	1.00	391,988.00	391,988.00
B.9	Mobilization & Demobilization	0.624	L. S.	1.00	510,645.00	510,645.00
PART C - EARTHWORKS						
1702(1)	Structure Excavation	0.318	cu.m.	1,131.00	260,260.80	230.12
PART J - FLOOD CONTROL AND DRAINAGE						
404(1)a	Reinforcing Steel, (Grade 40)	1.380	kg.	22,948.00	1,129,601.65	49.22
404(1)b	Reinforcing Steel, (Grade 60)	0.396	kg.	6,299.00	324,001.54	51.44
405(1)b3	Structural Concrete, fc" = 27.58 MPA	7.621	cu.m.	963.00	6,238,919.77	6,478.63
1716(6)	Structural Steel Sheet Piles, Furnished	33.368	ln.m.	8,354.00	27,315,741.38	3,269.78
1716 (12)	Structural Steel Sheet Piles, Driven	7.392	ln.m.	8,354.00	6,050,901.81	724.31
1716(16)	Steel Sheet Test Piles, Furnished and Driven	0.191	ln.m.	28.00	156,759.67	5,598.56
PART G - DRAINAGE AND SLOPE PROTECTION						
1710(5)	Grouted Riprap, Class "A"	9.636	cu.m.	1,585.00	7,888,640.76	4,977.06
1713(1)	Rubble Concrete	1.259	cu.m.	291.00	1,030,640.56	3,541.72
508(1)	Handlaid Rock Embankment	36.069	cu.m.	20,662.00	29,526,826.15	1,429.04
TOTAL		100.000			P 81,862,360.39	

NAME OF PROJECT :

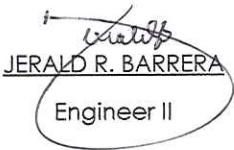
CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Materials	62.28	65,394,292.95
A.2. Labor	5.32	5,584,212.12
A.3. Equipment Expenses	10.37	10,883,855.33
SUB-TOTAL (DIRECT COST)	77.96	P 81,862,360.39
B. INDIRECT COST (Per D.O. # 57)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.66	8,045,899.46
B.2. Profit (8 % Max. of D.C.)	6.18	6,483,781.65
C. VAT (5 % of D.C. and I.C. Per D.O. 197 S. 2016)	4.61	4,841,099.62
SUBTOTAL (CONTRACT COST)	96.41	P 101,233,141.12
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	3,675,000.00
2. Detailed Engineering (1%)	0.00	
3. Reserved for the Payment of RROW	0.09	91,858.88
4. Provisional Sum	0.00	
TOTAL ESTIMATED PROJECT COST	100.00	P 105,000,000.00

Prepared :

Checked :


JOSEPHINE B. RENGQUIJO
Engineer I


JERALD R. BARRERA
Engineer II

Submitted :

Recommending Approval:


LEONCIO B. SOLAMILLO
Chief, Construction Division


CAYAMOMBAO D. DIA
Assistant Regional Director

Approved:


JORGE B. SEBASTIAN, JR., CESO - III
Regional Director

APPROVED BUDGET FOR THE CONTRACT
CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Project Name and Location

Stations :
Length :
Upstream:
443.50000

Contract Duration : 204 Calendar Days

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS			VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE					
									(6)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
PART B - OTHER GENERAL REQUIREMENTS													
A.1.1 (3)	Construction of Field Office for the Engineer	1.00	L.S.	481,851.56	10.00	8.00	18.00	86,733.28	28,429.24	115,162.52	597,014.08	597,014.08	
A.1.1 (11)	Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office for the Engineer	1.00	L.S.	196,288.00		8.00	8.00	15,703.04	10,599.55	26,302.59	222,590.59	222,590.59	
A.1.2 (5)	Operation & Maintenance of Gov't Service Vehicle	1.00	L.S.	304,444.80				-	15,222.24	15,222.24	319,667.04	319,667.04	
B.4 (1)	Construction Survey and Staking	0.44	k.m.	47,310.04	10.00	8.00	18.00	8,515.81	2,791.29	11,307.10	58,617.14	132,169.43	
B.5	Project Billboard	2.00	units	7,538.90	10.00	8.00	18.00	1,357.00	444.80	1,801.80	9,340.70	4,670.35	
B.7	Occupational Safety and Health Program	1.00	L.S.	391,988.00		8.00	8.00	31,359.04	21,167.35	52,526.39	444,514.39	444,514.39	
B.9	Mobilization & Demobilization	1.00	L.S.	510,645.00			0.00	-	25,532.25	25,532.25	536,177.25	536,177.25	
PART C - EARTHWORKS													
1702 (1)	Structure Excavation	1,131.00	cum.	260,260.80	10.00	8.00	18.00	46,846.94	36,852.93	83,699.87	343,960.67	304.12	
PART J - FLOOD CONTROL AND DRAINAGE													
404 (1) a	Reinforcing Steel, (Grade 40)	22,948.00	kg.	1,129,601.65	10.00	8.00	18.00	203,328.30	66,646.50	269,974.80	1,399,576.45	60.99	
404 (1) b	Reinforcing Steel, (Grade 60)	6,299.00	kg.	324,001.54	10.00	8.00	18.00	58,320.28	19,116.09	77,436.37	401,437.91	63.73	
405 (1) b3	Structural Concrete, 1c' = 27.58 MPA	963.00	cum.	6,238,919.77	10.00	8.00	18.00	1,123,005.56	368,096.27	1,491,101.83	7,730,021.60	8,027.02	
1716 (6)	Structural Steel Sheet Piles, Furnished	8,354.00	ln.m.	27,315,741.38	10.00	8.00	18.00	4,916,833.45	1,611,628.74	6,528,462.19	33,844,203.56	4,051.26	
1716 (12)	Structural Steel Sheet Piles, Driven	8,354.00	ln.m.	6,050,901.81	10.00	8.00	18.00	1,089,162.33	357,003.21	1,446,165.53	7,497,067.34	897.42	
1716 (16)	Steel Sheet Test Piles, Furnished and Driven	28.00	ln.m.	156,759.67	10.00	8.00	18.00	28,216.74	9,248.82	37,465.56	194,225.23	6,936.62	
PART G - DRAINAGE AND SLOPE PROTECTION													
1710 (5)	Grouted Riprap, Class "A"	1,585.00	cum.	7,888,640.76	10.00	8.00	18.00	1,419,955.34	465,429.80	1,885,385.14	9,774,025.90	6,166.58	
1713 (1)	Rubble Concrete	291.00	cum.	1,030,640.56	10.00	8.00	18.00	185,515.30	60,807.79	246,323.09	1,276,963.65	4,388.19	
508 (1)	Handlaid Rock Embankment	20,642.00	cum.	29,526,826.15	10.00	8.00	18.00	5,314,828.71	1,742,082.74	7,056,911.45	36,583,737.60	1,770.58	
				81,862,360.39				14,629,681.11	4,841,099.62	19,370,780.72	101,233,141.12		

Prepared /Submitted by :

Recommending Approval:

Approved :

BELEN A. SAPALUDA
Engineer IV - Chairman Estimating Committee

CAYANOMBAO D. DIA
Assistant Regional Director

JORGE L. SANTIAGO JR. III
Regional Director

PROJECT	: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE
LIMITS	: 0
NET LENGTH	: 443.50

WORK PROGRAMME/SCHEDULE

[illegible]

Prepared:

Submitted:

Approved:

JOSEPHINE B. RENGOULO
Engineer II

Submitted: _____

LEONCIO R. SOLAMILLO
Chief, Construction Division

ved:

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: A.1.1(3) Construction of Field Office for the Engineer
Unit of Measurement: L. S.
Output per hour:
Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	15.00	611.92	9,178.80
b.	Masons	4	15.00	443.20	26,592.00
c.	Carpenters	4	15.00	443.20	26,592.00
d.	Laborers	8	15.00	342.24	41,068.80
Sub-total for A				P	103,431.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Bagger Mixer	1	15.00	1,376.00	20,640.00
b.	Water Truck	1	1.00	19,600.00	19,600.00
c.	Minor Tools, 10% of Labor				10,343.16
Sub-total for B				P	50,583.16
C. Total (A+B)					154,014.76
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
	Gravel Bedding	0.00	cu.m.	956.50	-
	Selected Fill	0.00	cu. m.	456.50	-
	Soil Poisoning	0.00	lit.	1,900.00	-
	Portland Cement	220.00	bag	283.00	62,260.00
	Crushed gravel	15.00	cu.m.	956.50	14,347.50
	Washed Sand	25.00	cu.m.	956.50	23,912.50
	Deformed Bars, Grade 60	800.00	kg.	42.00	33,600.00
	No. #16 G.I. Tie Wire	35.00	kg.	70.00	2,450.00
	Coco Lumber	600.00	bd.ft.	15.00	9,000.00
	Ordinary Plywood, 1/4" x 4' x8"	0.00	pcs.	853.00	-
	CWN, Assorted	20.00	kg.	75.00	1,500.00
	CHB 6" thick	850.00	pc.	20.00	17,000.00
	10mm dia. X 6m RSB	150.00	kg.	43.00	6,450.00
	D-1,Hollow Core Flush Type swing door,complete w/ accessories	1.00	set	1,495.20	1,495.20
	W-1,Jalousie window, 1.4mx 1.2m.	0.00	set	1,176.00	-
	W-2, Jalousie window, 2.8m x 1.2m	0.00	set	2,352.00	-
	65 x 65 x 6mm Angle Bar	400.00	kg.	48.00	19,200.00
	50 x 50 x 6mm Angle Bar	200.00	kg.	48.00	9,600.00
	50 x 50 x 4mm Angle Bar	120.00	kg.	48.00	5,760.00
	Purlins C-150x50x3mm	35.00	kg.	48.00	1,680.00
	16mm dia. Cross Bracing	65.00	kg.	50.00	3,250.00
	16mm dia. Turn Buckle	30.00	pc.	230.00	6,900.00
	12mm thk. Base plate	45.00	kg.	48.00	2,160.00
	10mmthk batten plate	30.00	kg.	48.00	1,440.00
Sub-total for E				P	222,005.20
Total Cost For Materials					327,836.80
F. Direct Cost (C + E)					481,851.56
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016			48,185.16
H. Contractor's Profit(CP)		8% per D.O. 197 S. 2016			38,548.12
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016			28,429.24
L. Total Unit Cost					597,014.08

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: A.1.1(3) Construction of Field Office for the Engineer

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
a.	Const. Foreman	1		611.92	-
b.	Masons	4		443.20	-
c.	Carpenters	6		443.20	-
d.	Laborers	10		342.24	-
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
a.	Bagger Mixer	1		1,376.00	-
b.	Water Truck	1		19,600.00	-
c.	Minor Tools, 10% of Labor			0.00	-
Sub-total for B				P	-
C.	Total (A+B)				-
D.	Output/day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	10mm dia. Sag rod	15.00	kg.	48.00	720.00
	20mm dia. X 350mm Anchor Bolts	15.00	pc.	150.00	2,250.00
	Welding Rod	25.00	kg.	130.00	3,250.00
	Primer, Zinc Cromate	5.00	gal.	531.00	2,655.00
	Pre-painted G.I. Roofing Shit. Long span	55.00	sq.m.	420.00	23,100.00
	Pre-painted flashing Ridge Roll GA24,0.60m w	10.00	ln.m.	189.00	1,890.00
	Pre-painted flashing, GA 24	2.00	ln.m.	189.00	378.00
	Teckscrew 1-1/2"	1,000.00	pc.	1.25	1,250.00
	Roof Sealant	2.00	lit.	230.00	460.00
	Rough Lumber, Sun dries Tanguile	700.00	bd.ft.	37.00	25,900.00
	Finishing Nails	5.00	kg.	280.00	1,400.00
	Wood Preservative Brown	-	lit.	7,245.00	-
	2 x 40w Flourescent lighting fixtures	5.00	set	1,450.00	7,250.00
	Porcelain Ceiling Outlet w/female	2.00	pc.	50.00	100.00
	Duplex Convenience Outlet	3.00	pc.	170.00	510.00
	Two gang Switch	3.00	pc.	132.00	396.00
	3.50mm2 THW	2.00	roll	3,600.00	7,200.00
	8.00mm2 THW	20.00	m.	69.33	1,386.60
	15mm dia. PVC pipe	20.00	pc.	76.00	1,520.00
	15mm dia. PVC Coupling	20.00	pc.	27.00	540.00
	15mm dia. PVC Elbow	20.00	pc.	26.00	520.00
	15mm dia. PVC Clamp	50.00	pc.	8.00	400.00
	20mm dia. RSC Pipe	4.00	pc.	240.00	960.00
	20mm dia. RSC Coupling	3.00	pc.	36.00	108.00
	20mm dia. RSC Elbow	3.00	pc.	30.00	90.00
	20mm dia. RSC Clamp	10.00	pc.	18.00	180.00
	20mm dia. Service Entrance Cap	2.00	pc.	101.50	203.00
	Wire Holder	2.00	pc.	50.00	100.00
	Utility Box	7.00	pc.	32.00	224.00
	Octagon Box	50.00	pc.	34.00	1,700.00
Sub-total for E				P	86,640.60
F.	Direct Cost (C + E)				86,640.60
G.	Overhead, Contingencies and Miscellaneous				10% per D.O. 197 S. 2016
H.	Contractor's Profit(CP)				8% per D.O. 197 S. 2016
I.	Value Added Tax (VAT)				5% per D.O. 197 S. 2016
L.	Total Unit Cost				

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: A.1.1(3) Construction of Field Office for the Engineer
Unit of Measurement: L. S.
Output per hour:
Quantity: 1.00

Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
Electrical Tape(big)		7.00	pc.	28.00	196.00
Panel Board9Side main w/ branches)		2.00	set	2,750.00	5,500.00
Water Closet(include,fitting&Accessories)		1	set	6,062.00	6,062.00
Lavatory(include fitting & accessories)		1	set	4,512.00	4,512.00
1/2' GI Pipe S-40		2	pc.	292.00	584.00
1/2' Water Faucet		2	pc.	165.00	330.00
1/2' Assorted Connector		8	pc.	19.00	152.00
4" PVC Series 1000		1	pc.	640.00	640.00
2" PVC Series 1000		1	pc.	305.00	305.00
4" PVC Assorted Connector		6	pc.	77.00	462.00
2" PVC Assorted Connector		8	pc.	56.00	448.00
					-
					-
Sub-total for E				P	19,191.00
F.	Direct Cost (C + E)				19,191.00
G.	Overhead, Contingencies and Miscellaneous				-
H.	Contractor's Profit(CP)				
I.	Value Added Tax (VAT)				
L.	Total Unit Cost				

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

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

Unit of Measurement: L. S.

Output per hour: 1.00

Quantity: 1.00

Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Office Equipment/Facilities& Supplies				-
				-
				-
White Board , 3' x 6'	1	each.	2,000.00	2,000.00
8-seater Monoblock Dining Table	1	unit	3,000.00	3,000.00
Monoblock Backrest Chair	12	pcs.	500.00	6,000.00
Plastic Pail & Basin	2	set	300.00	600.00
Aluminum Cookware	1	set	3,000.00	3,000.00
each Plate, Glass, Spoon & Fork	1	doz	1,900.00	1,900.00
6" Sleeping Bed, Good Quality w/ pillows & blanket	3	each.	5,000.00	15,000.00
Office Table, Jr. Executive type	1	each.	7,000.00	7,000.00
w/ chair				-
Drawing Table	1	each.	5,000.00	5,000.00
Computer Table	1	each.	3,000.00	3,000.00
Cartridge(Computer Printer/Ink)	6	sets	1,800.00	10,800.00
CD RW	15	pc.	35.00	525.00
DVD Recordable & Writer	2	pc.	55.00	110.00
Bond paper (Long)	16	ream	330.00	5,280.00
Bond paper (Short)	15	ream	270.00	4,050.00
Yellow pad	6	pads	34.00	204.00
Scotch Tape	6	rolls	45.00	270.00
Masking Tape	6	rolls	134.00	804.00
Batteries" Energizer"	15	pc.	48.00	720.00
Balipen	4	box	200.00	800.00
Pencil Lead, No. 5	4	box	150.00	600.00
Paper Clip(Plastic coated)	4	box	40.00	160.00
Fastener(plastic coated)	6	box	60.00	360.00
Eraser(Ink, pencil)	6	box	20.00	120.00
Staple wire	6	box	250.00	1,500.00
Cutter blade	3	box	250.00	750.00
Glue, 130 grams	6	bottle	85.00	510.00
Correction Fluid Pen	6	bottle	50.00	300.00
Brown Envelope, Long & Short	5	doz.	85.00	425.00
Expanded Envelope, long	5	doz.	125.00	625.00
Colored Pencil, 12's	6	set	145.00	870.00
Folder, short	6	doz.	90.00	540.00
Folder, long	6	doz.	95.00	570.00
Pentel pen (Assorted colors)	6	pcs.	60.00	360.00
White Board Marker(Assorted colors)	6	pcs.	85.00	510.00
Letter Envelope, White(Long)	1	box	100.00	100.00
Data File Folder	6	pcs.	100.00	600.00
Sign Pen, Assorted Colors	2	doz.	900.00	1,800.00
				-
Sub-total for E			P	80,763.00
F. Direct Cost (C + E)				196,288.00
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		19,628.80
H. Contractor's Profit(CP)		8% per D.O. 197 S. 2016		15,703.04
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		10,599.55
L. Total Unit Cost				222,590.59

jcbr

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description:	A.1.1 (11)	Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office for
Unit of Measurement:	L. S.	the Engineer

Output per hour:

Quantity: 1.00

[illegible]

jcbbr

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description:	A.1.2 (5)	Operation & Maintenance of Go'vt Service Vehicle
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Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a. Service Driver		1	204.00	443.20	90,412.80
					-
					-
					-
					-
					-
					-
					-
Sub-total for A					P 90,412.80
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.					
a. GOV'T SERVICE VEHICLE		1	6.80		-
					-
					-
					-
					-
					-
					-
Sub-total for B					P -
C. Total (A+B)					90,412.80
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a. liters, Diesel Fuel		2,040.00	liter	42.00	85,680.00
b. Engine Oil & Lubricants		1.00	l.s.	12,852.00	12,852.00
c. Tires		5.00	pcs.	9,500.00	47,500.00
d. Spare parts etc.		1.00	L.S.	68,000.00	68,000.00
					-
					-
					-
					-
					-
					-
Sub-total for E					P 214,032.00
F. Direct Cost (C + E)					304,444.80
G. Overhead, Contingencies and Miscellaneous					-
H. Contractor's Profit(CP)					-
I. Value Added Tax (VAT) 5% per D.O. 197 S. 2016					15,222.24
L. Total Unit Cost					319,667.04

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: B.4(1) Construction Survey and Staking
Unit of Measurement: k.m.
Output per hour:
Quantity: 0.44

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
For Fieldworks: (assumed output = 300 ln.m.)				
a. Geodetic Engineer	1	1.48	833.31	1,231.91
b. Skilled Laborer	1	1.48	443.20	655.20
c. Laborer	1	1.48	342.24	505.94
				-
For Office works: (assumed output = 100 ln.m.)				
a. Geodetic Engineer	1	4.44	833.31	3,695.73
b. Skilled Laborer	1	4.44	443.20	1,965.59
				-
				-
Sub-total for A			P	8,054.37
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Total Station complete w/ accessories	1	1.48	800.00	1,182.67
				-
				-
				-
				-
				-
				-
				-
Sub-total for B			P	1,182.67
C. Total (A+B)				9,237.04
D. Output/day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Standard Stake Plan (800mm x 910mm plotting)	98.00	sheets	200.00	19,600.00
				-
b. blue print as stake plan	490.00	pcs.	34.00	16,660.00
				-
miscellaneous(5% of Materials)				1,813.00
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	38,073.00
F. Direct Cost (C + E)				47,310.04
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		4,731.00
H. Contractor's Profit(CP)		8% per D.O. 197 S. 2016		3,784.80
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		2,791.29
L. Total Unit Cost				132,169.43

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: B.5 Project Billboard
Unit of Measurement: units
Output per hour:
Quantity: 2.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Foreman	1	0.25	611.92	152.98
b.	Carpenters	1	0.25	443.20	110.80
c.	Laborer	2	0.25	342.24	171.12
					-
					-
					-
					-
					-
					-
					-
Sub-total for A				P	434.90
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	-
C.	Total (A+B)				434.90
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Marine Plywood 3/16" thk 4' x 8'	2.00	pc.	577.00	1,154.00
b.	Tarpaulin (4' x 8')	2.00	pc.	800.00	1,600.00
c.	Assorted Sizes Lumber	100.00	bd. ft.	42.00	4,200.00
d.	Assorted Sizes C.W. Nails	2.00	kg.	75.00	150.00
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	7,104.00
F. Direct Cost (C + E)					7,538.90
G. Overhead, Contingencies and Miscellaneous			10% per D.O. 197 S. 2016		753.89
H. Contractor's Profit(CP)			8% per D.O. 197 S. 2016		603.11
I. Value Added Tax (VAT)			5% per D.O. 197 S. 2016		444.80
L. Total Unit Cost					4,670.35

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: B.7 Occupational Safety and Health Program
Unit of Measurement: L. S.
Output per hour:
Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Safety Practitioner	1	51.00	443.20	22,603.20
b.	First Aider	1	204.00	342.24	69,816.96
c.	laborers (flagmen) - 2 laborers/shift	4	204.00	342.24	279,267.84
					-
					-
					-
					-
					-
					-
Sub-total for A				P	371,688.00
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	-
C. Total (A+B)					371,688.00
D. Output/day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
					-
a.	Pairs, Rubber Boots Men, Long, with	20.00	pair	400.00	8,000.00
b.	Steel Toe, Black				
c.	Pairs, Working Gloves (Maong Materials)	20.00	pair	15.00	300.00
d.	Pcs., Rain Coats (Rainforced, Hip Length Small, Medium, & Large)	20.00	pcs.	100.00	2,000.00
e.	Barricades/Signboards	1.00	L.S	10,000.00	10,000.00
					-
					-
					-
					-
					-
Sub-total for E				P	20,300.00
F. Direct Cost (C + E)					391,988.00
G. Overhead, Contingencies and Miscellaneous					
H. Contractor's Profit(CP)			8% per D.O. 197 S. 2016		31,359.04
I. Value Added Tax (VAT)			5% per D.O. 197 S. 2016		21,167.35
L. Total Unit Cost					444,514.39

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description:	B.9	Mobilization & Demobilization
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Unit of Measurement: L. S.

Output per hour:

Quantity: 1.00

[illegible]

L.	Total Unit Cost	
L.	Total Unit Cost	536,177.25

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 1702(1) Structure Excavation
Unit of Measurement: cu.m.
Output per hour: 20.00 cu.m./hr.
Quantity: 1,131.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	7.07	611.92	4,325.51
b.	Laborers	3	7.07	342.24	7,257.63
					-
					-
					-
					-
					-
Sub-total for A				P	11,583.14
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					-
a.	Dump Truck	2	7.07	11,360.00	160,602.00
b.	Backhoe	1	7.07	12,296.00	86,917.35
	Minor Tools(10% of Labor Cost)				1,158.31
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	248,677.66
C. Total (A+B)					260,260.80
D. Output/day		160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					-
a.					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	-
F. Direct Cost (C + E)					260,260.80
G. Overhead, Contingencies and Miscellaneous			10% per D.O. 197 S. 2016		26,026.08
H. Contractor's Profit(CP)			8% per D.O. 197 S. 2016		20,820.86
I. Value Added Tax (VAT)			5% per D.O. 197 S. 2016		15,355.39
L. Total Unit Cost					285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 404(1)a Reinforcing Steel, (Grade 40)
Unit of Measurement: kg.
Output per hour: 180.00 kg./hr.
Quantity: 22,948.00 Use 2 gangs of labor & equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	7.97	611.92	4,875.81
b. Skilled	4	7.97	443.20	14,125.77
c. Laborers, Unskilled	16	7.97	342.24	43,631.80
				-
				-
				-
				-
				-
				-
Sub-total for A				P 62,633.38
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Bar Cutter	2	3.98	1,758.00	14,007.84
b. Bar Bender	2	3.98	2,812.00	22,406.17
c. Cargo Truck	2	0.60	9,696.00	11,588.74
				-
				-
				-
				-
				-
				-
Sub-total for B				P 48,002.75
C. Total (A+B)				110,636.13
D. Output/day	2,880.00	sq.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Reinforcing Steel Bars, Grade 40	24,096.00	kgs.	40.89	985,225.52
b. Tie Wire	482.00	kgs.	70.00	33,740.00
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E				P 1,018,965.52
F. Direct Cost (C + E)				1,129,601.65
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		112,960.17
H. Contractor's Profit (CP)		8% per D.O. 197 S. 2016		90,368.13
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		66,646.50
L. Total Unit Cost				60.99

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 404(1)b Reinforcing Steel, (Grade 60)
Unit of Measurement: kg.
Output per hour: 180.00 kg./hr.
Quantity: 6,299.00 Use 2 gangs of labor * equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	2.19	611.92	1,338.36
b. Skilled	4	2.19	443.20	3,877.38
c. Laborers, Unskilled	16	2.19	342.24	11,976.50
				-
				-
				-
				-
				-
				-
Sub-total for A			P	17,192.25
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Bar Cutter	2	1.09	1,758.00	3,845.01
b. Bar Bender	2	1.09	2,812.00	6,150.27
c. Cargo Truck	2	0.16	9,696.00	3,181.00
				-
				-
				-
				-
				-
				-
Sub-total for B			P	13,176.28
C. Total (A+B)				30,368.53
D. Output/day	2,880.00	sq.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Reinforcing Steel Bars, Grade 60	6,614.00	kgs.	42.89	283,658.01
b. Tie Wire	133.00	kgs.	75.00	9,975.00
				-
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	293,633.01
F. Direct Cost (C + E)				324,001.54
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		32,400.15
H. Contractor's Profit (CP)		8% per D.O. 197 S. 2016		25,920.12
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		19,116.09
L. Total Unit Cost				63.73

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 405(1)b3 Structural Concrete, fc" = 27.58 MPA
Unit of Measurement: cu.m.
Output per hour: 1.40 cu.m./hr.
Quantity: 963.00 Use 3 gangs of equipment & labor

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Foreman	1	28.66	611.92	17,538.06
b. Skilled	12	28.66	443.20	152,429.14
c. Unskilled	24	28.66	342.24	235,412.23
Installation/Removal of Formworks				
b. Skilled	6	28.66	443.20	76,214.57
c. Unskilled	12	28.66	342.24	117,706.11
				-
				-
Sub-total for A			P	599,300.12
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	3	28.66	1,376.00	118,311.43
b. Concrete vibrator	3	28.66	730.00	62,766.96
c. Water truck	3	2.87	19,600.00	168,525.00
Minor Tools (5% of Labor)				29,965.01
				-
				-
				-
				-
				-
Sub-total for B			P	379,568.40
C. Total (A+B)				978,868.52
D. Output/day	33.60	ln.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	10,593.00	bag	283.00	2,997,819.00
b. Fine Aggregates	481.50	cu.m.	956.50	460,554.75
c. Coarse Aggregates	963.00	pc.	956.50	921,109.50
d. Form lumber	16,853.00	pc.	42.00	707,826.00
e. Plywood	386.00	pc.	423.00	163,278.00
f. Assorted CWNails	169.00	pc.	56.00	9,464.00
				-
				-
				-
				-
				-
Sub-total for E			P	5,260,051.25
F. Direct Cost (C + E)				6,238,919.77
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		623,891.98
H. Contractor's Profit(CP)		8% per D.O. 197 S. 2016		499,113.58
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		368,096.27
L. Total Unit Cost				8,027.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 1716(6) Structural Steel Sheet Piles, Furnished
Unit of Measurement: In.m.
Output per hour: 48 In.m./hr.
Quantity: 8,354.00 Use 2 gangs of labor & equipment

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	10.88	611.92	6,656.22
b.	Skilled Laborers	4	10.88	443.20	19,283.82
c.	Unskilled Laborers	4	10.88	342.24	14,891.01
					-
					-
					-
					-
					-
					-
Sub-total for A				P	40,831.05
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Truck Mounted Crane	2	10.88	20,848.00	453,552.58
					-
					-
					-
					-
					-
					-
					-
Sub-total for B				P	453,552.58
C. Total (A+B)					494,383.63
D. Output/day		768.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Steel Sheet Pile FY50	400,992.00	kg.	66.89	26,821,357.75
					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	26,821,357.75
F. Direct Cost (C + E)					27,315,741.38
G. Overhead, Contingencies and Miscellaneous			10% per D.O. 197 S. 2016		2,731,574.14
H. Contractor's Profit(CP)			8% per D.O. 197 S. 2016		2,185,259.31
I. Value Added Tax (VAT)			5% per D.O. 197 S. 2016		1,611,628.74
L. Total Unit Cost					4,051.26

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

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

Unit of Measurement: In.m.

Output per hour: 10.00 In.m./hr.

Quantity: 8,354.00 Use 2 gangs for labor & equipment

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	52.21	611.92	31,949.87
b.	Skilled Laborers	12	52.21	443.20	277,686.96
c.	Unskilled Laborers	12	52.21	342.24	214,430.47
					-
					-
					-
					-
					-
					-
Sub-total for A				P	524,067.31
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
a.	Truck Mounted Crane	2	52.21	20,848.00	2,177,052.40
b.	Vibro Hammer	2	52.21	16,984.00	1,773,554.20
c.	Gen. Set	2	52.21	10,373.36	1,083,238.12
d.	Welding Machine	2	52.21	2,968.00	309,933.40
e.	Cutting Outfit	2	26.11	363.60	18,984.47
					-
					-
					-
Sub-total for B				P	5,362,762.58
C. Total (A+B)					5,886,829.89
D. Output/day		160.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Welding Rod	200.50	m.	145.00	29,071.92
b.	Oxygen/Acetylene	36.00	set	3,750.00	135,000.00
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	164,071.92
F. Direct Cost (C + E)					6,050,901.81
G. Overhead, Contingencies and Miscellaneous			10% per D.O. 197 S. 2016		605,090.18
H. Contractor's Profit(CP)			8% per D.O. 197 S. 2016		484,072.14
I. Value Added Tax (VAT)			5% per D.O. 197 S. 2016		357,003.21
L. Total Unit Cost					897.42

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 1716(16) Steel Sheet Test Piles, Furnished and Driven
Unit of Measurement: In.m.
Output per hour: 8.000 In.m./hr.
Quantity: 28.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	0.44	611.92	267.72
b. Skilled	6	0.44	443.20	1,163.40
c. Laborers, Unskilled	6	0.44	342.24	898.38
				-
				-
				-
				-
				-
				-
				-
Sub-total for A			P	2,329.50
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Truck Mounted Crane	1	0.44	20,848.00	9,121.00
b. Vibro Hammer	1	0.44	16,984.00	7,430.50
c. Gen. Set	1	0.44	10,373.36	4,538.35
d. Welding Machine	1	0.44	2,968.00	1,298.50
e. Cutting Outfit	1	0.22	363.60	232.95
				-
				-
				-
				-
Sub-total for B			P	22,621.29
C. Total (A+B)				24,950.79
D. Output/day	64.00	In.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Coco logs	23.80	m.	520.00	12,376.00
b. Good Lumber	112.00	bd.ft.	42.00	4,704.00
c. Nail/Spike	4.48	kg.	42.00	188.16
d. Steel Sheet Pile	28.00	m.	4,051.26	113,435.28
e. Welding Rod	0.67	kg.	145.00	97.44
f. Oxy/Acetylene	0.27	set	3,750.00	1,008.00
				-
				-
				-
				-
				-
				-
				-
Sub-total for E			P	131,808.88
F. Direct Cost (C + E)				156,759.67
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		15,675.97
H. Contractor's Profit (CP)		8% per D.O. 197 S. 2016		12,540.77
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		9,248.82
L. Total Unit Cost				6,936.62

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 1710(5) Grouted Riprap, Class "A"
Unit of Measurement: cu.m.
Output per hour: 1.25 cu.m./hr.
Quantity: 1,585.00 Use 3 gangs for labor & equipment

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	52.83	611.92	32,329.77
b. Skilled laborer	6	52.83	443.20	140,494.40
c. Unskilled Laborer	24	52.83	342.24	433,960.32
				-
				-
				-
				-
				-
				-
Sub-total for A			P	606,784.49
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	3	52.83	1,376.00	218,096.00
b. Water truck	3	52.83	19,600.00	3,106,600.00
				-
Minor Tools(10% of Labor)				60,678.45
				-
				-
				-
				-
				-
Sub-total for B			P	3,385,374.45
C. Total (A+B)				3,992,158.94
D. Output/day	30.00	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	4,755.00	bag	283.00	1,345,665.00
b. Fine Aggregates	397.00	cu.m.	956.50	379,730.50
c. Gravel Fill	23.78	cu.m.	956.50	22,740.79
d. Weep Holes	476.00	m.	204.00	97,104.00
e. Filter Cloth	24.00	sq.m.	160.00	3,840.00
f. Boulders	1,665.00	cu.m.	1,206.50	2,008,822.50
Miscellaneous(1% Materials)				38,579.03
				-
				-
				-
				-
				-
Sub-total for E			P	3,896,481.82
F. Direct Cost (C + E)				7,888,640.76
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		788,864.08
H. Contractor's Profit(CP)		8% per D.O. 197 S. 2016		631,091.26
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		465,429.80
L. Total Unit Cost				6,166.58

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 1713(1) Rubble Concrete
Unit of Measurement: cu.m.
Output per hour: 1.40 cu.m./hr.
Quantity: 291.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	8.66	611.92	5,299.66
b. Skilled laborer	6	8.66	443.20	23,030.57
c. Unskilled Laborer	24	8.66	342.24	71,137.03
				-
				-
				-
				-
				-
Sub-total for A				P 99,467.26
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. One bagger mixer	3	8.66	1,376.00	35,751.43
b. Water truck	3	0.43	19,600.00	25,462.50
c. Backhoe	3	0.87	12,296.00	31,947.64
Minor Tools(10% of Labor)				9,946.73
				-
				-
				-
				-
Sub-total for B				P 103,108.30
C. Total (A+B)				202,575.56
D. Output/day	33.60	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Portland Cement	1,222.20	bag	283.00	345,882.60
b. Fine Aggregates	77.00	cu.m.	956.50	73,650.50
c. Gravel Fill	5.82	cu.m.	956.50	5,566.83
d. Weep Holes	87.00	m.	204.00	17,748.00
e. Filter Cloth	4.00	sq.m.	160.00	640.00
f. Boulders	184.00	cu.m.	1,206.50	221,996.00
g. Coarse Aggregates	153.00	cu.m.	956.50	146,344.50
Miscellaneous(2% Materials)				16,236.57
				-
				-
				-
				-
Sub-total for E				P 828,065.00
F. Direct Cost (C + E)				1,030,640.56
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197 S. 2016		103,064.06
H. Contractor's Profit(CP)		8% per D.O. 197 S. 2016		82,451.24
I. Value Added Tax (VAT)		5% per D.O. 197 S. 2016		60,807.79
L. Total Unit Cost				4,388.19

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: CONSTRUCTION/MAINTENANCE OF FLOOD MITIGATION STRUCTURES AND DRAINAGE SYSTEMS - EXTENSION OF FLOOD CONTROL STRUCTURE ALONG SIOCON RIVER (UPSTREAM) , SIOCON, ZAMBOANGA DEL NORTE

Item No./Description: 508(1) Handlaid Rock Embankment
Unit of Measurement: cu.m.
Output per hour: 3.125 cu.m./hr.
Quantity: 20,662.00 Use 10 gangs for labor

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A. Labor					
a.	Const. Foreman	1	82.65	611.92	50,573.96
b.	Skilled laborer	20	82.65	443.20	732,591.87
c.	Unskilled Laborer	80	82.65	342.24	2,262,836.12
					-
					-
					-
					-
					-
Sub-total for A				P	3,046,001.96
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					-
					-
					-
Minor Tools(10% of Labor)					304,600.20
					-
					-
					-
					-
Sub-total for B				P	304,600.20
C. Total (A+B)					3,350,602.15
D. Output/day		250.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
a.	Boulders	21,696.00	cu.m.	1,206.50	26,176,224.00
					-
					-
					-
					-
					-
					-
					-
					-
					-
Sub-total for E				P	26,176,224.00
F. Direct Cost (C + E)					29,526,826.15
G. Overhead, Contingencies and Miscellaneous			10% per D.O. 197 S. 2016		2,952,682.62
H. Contractor's Profit(CP)			8% per D.O. 197 S. 2016		2,362,146.09
I. Value Added Tax (VAT)			5% per D.O. 197 S. 2016		1,742,082.74
L. Total Unit Cost					1,770.58

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/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 ACCEL RATES)

4	- Unit Dumptruck	@ P	11,360.00 /day	x	1.17 days	= P	<u>53,250.00</u>
			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 2nd DEO

	Ave. Hauling Distance		Unit Cost per cu.m./km.		Hauling Cost per cu.m.		Unit Pirce		Unit Cost per cu.m.
<i>Cost of Fine Aggregates:</i>	10.00	x	10.65	=	106.50	+	850.00	=	956.50
<i>Cost of Coarse Aggregates:</i>	10.00	x	10.65	=	106.50	+	850.00	=	956.50
<i>Cost of Item 200 Materials:</i>	10.00	x	10.65	=	106.50	+	618.00	=	724.50
<i>Cost of Item 201 Materials:</i>	10.00	x	10.65	=	106.50	+	663.00	=	769.50
<i>Cost of Item 300 Materials:</i>	10.00	x	10.65	=	106.50	+	755.00	=	861.50
<i>Cost of Boulders:</i>	10.00	x	10.65	=	106.50	+	1,100.00	=	1,206.50
<i>Cost of Embankmen, Common Borrow:</i>	10.00	x	10.65	=	106.50	+	270.00	=	376.50
<i>Cost of Embankmen, Selected Borrow:</i>	10.00	x	10.65	=	106.50	+	350.00	=	456.50

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (Bags)
Portland Cement Concrete Pavement, 0.28 m. thick	23.80
Reinforced Concrete Culvert Pipe, 910 mm. (36") diameter	0.00
Structural Concrete, $f_c = 27.58$ MPA	10,593.00
Elastomeric Bearing Pad	0.00
Grouted Riprap, Class "A"	1,224.00
Construction of Field Office for the Engineer	220.00
RCCP, 610 mm dia.	14.00
Catch Basin	4.00
Concrete Cover	1.00
Concrete Curb & Gutter	157.38
Sidewalk	231.80
Informatory Signs	1.00
T O T A L	12,469.98

Quantity = 12,469.98 Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga DEL Norte 2nd DEO	90.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :
say 90.00 km.

Delivery Charge = P 0.120 x 90.00
= P 10.80 / bag

*Delivery Truck : 12,469.98 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 = $\frac{90.00 \times 60}{30.00}$ = 180.00 mins.

Unloaded running	=	$\frac{90.00 \times 60}{40.00}$	=	135.00 mins.
Loading and Unloading	:	45.00	mins.	
Capacity of Dumptruck	:	8.00	cu.m.	
	:	500.00	bags	
Total Cycle time	:	360.00	mins.	
No. of trips for Dumptruck per day	=	$\frac{8.0 \times 60.00}{360.00}$	=	1.33 say 1.33 trip
Dumptruck daily output	=	500 x 1.33	=	666.67 cu.m.
Using (4) Dumptrucks	=	4 x 666.67	=	2,666.67 cu.m.

1. No. of days for Delivery Truck	=	$\frac{12,469.98}{2,666.67}$	=	4.68 say 0.00 days
2. No. of days for Labor, for unloading	=	complimentary to D. Truck days		= 0.00 days

DELIVERY COST :

12,469.98 - Bags, Portland Cement	@ P	10.80	/ bag	= P	134,675.78
Sub - Total				P	134,675.78

LABOR :

1 - Foreman	@ P	611.92 /day	x	0.00 days	= P	0.00
10 - Laborers, unloading	@ P	342.24 /day	x	0.00 days	= P	0.00
Sub - Total				P	0.00	

MATERIALS :

12,469.98 - Bags, Portland Cement	@ P	283.00	/ bag	= P	3,529,004.34
(Pick-Up Price)	Sub - Total				P 3,529,004.34

Estimated Quantity	12,469.98 Bags				
Unit Cost	P	293.80 / Bag,	say P	283.00 / Bag	
Grand Total	P	3,663,680.12			
Delivery Cost	P	134,675.78			
Labor	P	0.00			
Materials	P	3,529,004.34			

UNIT COST DERIVATION FOR Reinforcing Grade 60

TOTAL QUANTITY REQUIREMENTS FOR Grade 60

DESCRIPTION	QUANTITY (Bags)
Reinforcing Steel Bars Grade 60	6,614.00
T O T A L	6,614.00

Quantity = 6,614.00 kgs.

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga DEL Norte 2nd DEO	90.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :

say 90.00 km.

*Cargo Truck (12T) : 12,000.00 kgs., (capacity per haul)

*Crawler Crane (45T) or loading and unloading (Complimentary to Cargo truck)

*Capacity of Laborers unloading bags of Cement from Delivery Truck :

Assume (10) laborers can unload (Compli bags of Cement.

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

Speed when loaded : 40.00 kph

Speed when unloaded : 50.00 kph

$$\text{Loaded running} = \frac{90.00 \times 60}{40.00} = 135.00 \text{ mins.}$$

Unloaded running	=	$\frac{90.00 \times 60}{50.00}$	=	108.00 mins.
Loading and Unloading	:	45.00 mins.		
Capacity of Cargotruck	:	8.00 cu.m.		
	:	12,000.00 bags kgs.		
Total Cycle time	:	288.00 mins.		
No. of trips for Cargotruck per day	=	$\frac{8.0 \times 60.00}{288.00}$	=	1.67 say 1.67 trip
Cargo truck daily output	=	12,000 x 1.67	=	20,000.00 kgs.
Using (2)Cargotrucks	=	2 x 12000.00	=	24,000.00 days

1. No. of days for Cargo Truck	=	$\frac{6,614.00}{24,000.00}$	=	0.28 say 0.28 days
2. No. of days for Labor, for unloading	=	complimentary to C Truck days	=	0.28 days

Equipment:

1	- Cargo Truck	@ P	611.92 /day	x	0.28 days	= P	168.63
2	- Crawler Crane	@ P	9,696.00 /day	x	0.28 days	= P	5,344.11
Sub - Total							P 5,512.75

LABOR :

1	- Foreman	@ P	611.92 /day	x	0.28 days	= P	168.63
2	- Laborers, unloading	@ P	342.24 /day	x	0.28 days	= P	188.63
Sub - Total							P 357.27

MATERIALS :

6,614.00	-kgs ,Steel Bars	@ P	42.00	/ kg	= P	277,788.00
(Pick-Up Price)		Sub - Total				P 277,788.00

Estimated Quantity		6,614.00 kgs.			
Unit Cost	P	42.89 /kgs.,	say P	42.89 / kg	
Grand Total	P	283,658.01			
Equipment	P	5,512.75			
Labor	P	357.27			
Materials	P	277,788.00			

UNIT COST DERIVATION FOR Reinforcing Steel Grade 40

TOTAL QUANTITY REQUIREMENTS FOR Grade 40

DESCRIPTION	QUANTITY (Bags)
Reinforcing Steel Bars Grade 40	24,096.00
T O T A L	24,096.00

Quantity = 24,096.00 kgs.

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga DEL Norte 2nd DEO	90.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :

say 90.00 km.

*Cargo Truck (12T) : 12,000.00 kgs., (capacity per haul)

*Crawler Crane (45T) or loading and unloading (Complimentary to Cargo truck

*Capacity of Laborers unloading bags of Cement from Delivery Truck :

Assume (10) laborers can unload (Compli bags of Cement.

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

Speed when loaded : 40.00 kph

Speed when unloaded : 50.00 kph

Loaded running = $\frac{90.00 \times 60}{40.00}$ = 135.00 mins.

Unloaded running	=	$\frac{90.00 \times 60}{50.00}$	=	108.00 mins.
Loading and Unloading	:	45.00 mins.		
Capacity of Cargotruck	:	8.00 cu.m.		
	:	12,000.00 bags kgs.		
Total Cycle time	:	288.00 mins.		
No. of trips for Cargotruck per day	=	$\frac{8.0 \times 60.00}{288.00}$	=	1.67 say 1.67 trip
Cargo truck daily output	=	12,000 x 1.67	=	20,000.00 kgs.
Using (2)Cargotrucks	=	2 x 12000.00	=	24,000.00 days

1. No. of days for Cargo Truck	=	$\frac{24,096.00}{24,000.00}$	=	1.00 say 1.00 days
2. No. of days for Labor, for unloading	=	complimentary to C Truck days	=	1.00 days

Equipment:

1	- Cargo Truck	@ P	611.92 /day	x	1.00 days	= P	614.37
2	- Crawler Crane	@ P	9,696.00 /day	x	1.00 days	= P	19,469.57
Sub - Total							P 20,083.94

LABOR :

1	- Foreman	@ P	611.92 /day	x	1.00 days	= P	614.37
2	- Laborers, unloading	@ P	342.24 /day	x	1.00 days	= P	687.22
Sub - Total							P 1,301.59

MATERIALS :

24,096.00	-kgs ,Steel Bars	@ P	40.00	/ kg	= P	963,840.00
(Pick-Up Price)		Sub - Total				P 963,840.00

Estimated Quantity		24,096.00 kgs.				
Unit Cost	P	40.89 /kgs.,	say	P	40.89 / kg	
Grand Total	P	985,225.52				
Equipment	P	20,083.94				
Labor	P	1,301.59				
Materials	P	963,840.00				

UNIT COST DERIVATION FOR Steel Sheet Piles

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (Bags)
Steel Sheet Piles	400,992.00
TOTAL	400,992.00

Quantity = 400,992.00 kgs.

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga DEL Norte 2nd DEO	90.00
PROJECT SITE	

*Average hauling distance from Source to assumed Stockpiling area :
say 90.00 km.

*Cargo Truck (12T) : 12,000.00 kgs., (capacity per haul)

*Crawler Crane (45T) or loading and unloading (Complimentary to Cargo truck

*Capacity of Laborers unloading bags of Cement from Delivery Truck :
Assume (10) laborers can unload (Compli bags of Cement.

*Dumptruck (10 Wheeler) days computation : **TIME-MOTION ANALYSIS**
Speed when loaded : 40.00 kph
Speed when unloaded : 50.00 kph
Loaded running = $\frac{90.00 \times 60}{40.00}$ = 135.00 mins.

Unloaded running	=	$\frac{90.00 \times 60}{50.00}$	=	108.00 mins.
Loading and Unloading	:	45.00 mins.		
Capacity of Cargotruck	:	8.00 cu.m.		
	:	12,000.00 bags kgs.		
Total Cycle time	:	288.00 mins.		
No. of trips for Cargotruck per day	=	$\frac{8.0 \times 60.00}{288.00}$	=	1.67 say 1.67 trip
Cargo truck daily output	=	12,000 x 1.67	=	20,000.00 kgs.
Using (2)Cargotrucks	=	2 x 12000.00	=	24,000.00 days

1. No. of days for Cargo Truck	=	$\frac{400,992.00}{24,000.00}$	=	16.71 say 16.71 days
2. No. of days for Labor, for unloading	=	complimentary to C Truck days	=	16.71 days

Equipment:

1	- Cargo Truck	@ P	611.92 /day	x	16.71 days	= P	10,223.96
2	- Crawler Crane	@ P	9,696.00 /day	x	16.71 days	= P	324,001.54
Sub - Total							P 334,225.50

LABOR :

1	- Foreman	@ P	611.92 /day	x	16.71 days	= P	10,223.96
2	- Laborers, unloading	@ P	342.24 /day	x	16.71 days	= P	11,436.29
Sub - Total							P 21,660.25

MATERIALS :

400,992.00	-kgs ,Steel Bars	@ P	66.00	/ kg	= P	26,465,472.00
(Pick-Up Price)		Sub - Total				P 26,465,472.00

Estimated Quantity		400,992.00 kgs.				
Unit Cost	P	66.89 /kgs.,	say	P	66.89 / kg	
Grand Total	P	26,821,357.75				
Equipment	P	334,225.50				
Labor	P	21,660.25				
Materials	P	26,465,472.00				

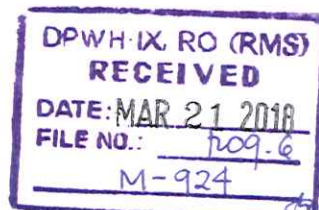


CERTUSO Structural Specialists

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FORMAL QUOTATION

MARCH 20, 2018

RD JORGE U. SEBASTIAN JR.

Regional Director - DPWH Region 9 Office

Tetuan, Zamboanga City

CC: DPWH Design and Planning Division

DPWH Region 9 Office

Tetuan, Zamboanga City

Subject : Steel Sheet Pile Quotation

Dear Sir Jorge,

I am pleased to offer you my best price below items, subject to our standard terms and conditions of sale, as follows:

Description	Unit Price	Price per kg	Qty	Total Amount	REMARKS
HOT ROLLED Type 2 x 12m (U TYPE) 400mm x 100mm x 10.5mm x 48 kg/m x 12meters SECTION MODULUS: 874 CM3/M Steel Grade: SY 295	Php 38,016.00	Php 66.00	1000 pcs	Php 38,016,000.00	READILY AVAILABLE
HOT ROLLED Type 3 x 12m (U TYPE) 400mm x 125mm x 13mm x 60 kg/m x 12meters SECTION MODULUS: 1340 CM3/M Steel Grade: SY 295	Php 47,520.00	Php 66.00	1000 pcs	Php 47,520,000.00	READILY AVAILABLE
COLD FORMED MMU 9-4 x 12m 600mm x 355mm x 7mm x 53.4 kg/m x 12meters SECTION MODULUS: 947 CM3/M Steel Grade: Q235 B	Php 48,060.00	Php 75.00	667 pcs	Php 32,056,020.00	READILY AVAILABLE
COLD FORMED MMU 12-3 x 12m 600mm x 310mm x 9.5mm x 68.1 kg/m x 12meters SECTION MODULUS: 1240 CM3/M Steel Grade: Q235 B	Php 70,279.20	Php 75.00	667 pcs	Php 46,876,226.40	READILY AVAILABLE

PRODUCT SPECS AND STEEL GRADE:

- STEEL GRADES AVAILABLE: SY 295 / Q235B / S 355
- MILL CERTIFICATE INCLUDED

TERMS AND CONDITIONS FOR SHEET PILE:

Price above is Delivered ZAMBOANGA CITY PORT

Payment Terms – 50% DOWNPAYMENT 50% BALANCE BEFORE DELIVERY

Lead time is 14-21 days from date of confirmed order and SUBJECT TO AVAILABILITY OF VESSEL

All orders must be supported with a formal Purchase Order

Offer is valid within 15 days from date above

All other terms and conditions to be mutually agreed prior to confirmation of order.

Thank you and we look forward to receiving your valued order soon.

Very truly yours,

CERTUSO Structural Specialists


JAY LANCE KERWIN L. CINCO
Sales Manager



109.6/m-924
03.226557



Davao Golden Hardware, Inc.

Goldcrest Building, Km. 3, MacArthur Highway, Malina, 8000 Davao City
Phone: (+63 82) 298-5849 / 298-5850 / 296-0878
Fax: (+63 82) 297-7700 Email: davgol168@yahoo.com

SALES QUOTATION

March 20, 2018

RD JORGE U. SEBASTIAN JR.
Regional Director - DPWH Region 9 Office
Tetuan, Zamboanga City

CC: DPWH Design and Planning Division
DPWH Region 9 Office
Tetuan, Zamboanga City

Subject : Steel Sheet Pile Quotation

Dear RD Jorge,

Please see our offer for steel sheet piles:

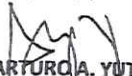
Description	Unit Price
STEEL SHEET PILES 400mm x 100mm x 10.5mm x 48 kg/m x 12meters SECTION MODULUS: 874 CM3/M	Php 38,432.00
STEEL SHEET PILES 400mm x 125mm x 13mm x 60 kg/m x 12meters SECTION MODULUS: 1340 CM3/M	Php 47,860.00
STEEL SHEET PILES 600mm x 355mm x 7mm x 53.4 kg/m x 12meters SECTION MODULUS: 947 CM3/M	Php 48,164.40
STEEL SHEET PILES 600mm x 310mm x 9.5mm x 68.1 kg/m x 12meters SECTION MODULUS: 1240 CM3/M	Php 70,280.20

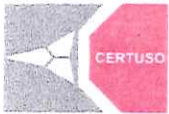
TERMS AND CONDITION:

- Vat inclusive and Cash before delivery
- Delivered Zamboanga City Port
- Subject to change without prior notice
- Subject to availability
- Price validity 7 days

Thank you.

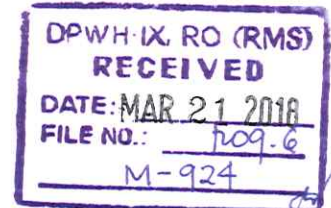
Very truly yours,


ARTURO A. YUTIG, JR.
Sales Manager



CERTUSO Structural Specialists

303 Lee Business Corner, Juan Luna St., Davao City, Philippines
Fax: +6382-2210577, Phone: +6382-2275215
Email: info@certuso.com.ph



FORMAL QUOTATION

March 20 2018

RD JORGE U. SEBASTIAN JR.
Regional Director - DPWH Region 9 Office
Tetuan, Zamboanga City

CC: DPWH Design and Planning Division
DPWH Region 9 Office
Tetuan, Zamboanga City

Subject : Steel Sheet Pile Quotation

Dear Sir Jorge,

I am pleased to offer you my best price below items, subject to our standard terms and conditions of sale, as follows:

Description	Unit Price	Price per kg	Qty	Total Amount	REMARKS
HOT ROLLED Type 2 x 12m (U TYPE) 400mm x 100mm x 10.5mm x 48 kg/m x 12meters SECTION MODULUS: 874 CM3/M Steel Grade: SY 295	Php 38,016.00	Php 66.00	1000 pcs	Php 38,016,000.00	READILY AVAILABLE
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COLD FORMED MMU 9-4 x 12m 600mm x 355mm x 7mm x 53.4 kg/m x 12meters SECTION MODULUS: 947 CM3/M Steel Grade: Q235 B	Php 48,060.00	Php 75.00	667 pcs	Php 32,056,020.00	READILY AVAILABLE
COLD FORMED MMU 12-3 x 12m 600mm x 310mm x 9.5mm x 68.1 kg/m x 12meters SECTION MODULUS: 1240 CM3/M Steel Grade: Q235 B	Php 70,279.20	Php 75.00	667 pcs	Php 46,876,226.40	READILY AVAILABLE

PRODUCT SPECS AND STEEL GRADE:

- STEEL GRADES AVAILABLE: SY 295 / Q235B / S 355
- MILL CERTIFICATE INCLUDED

TERMS AND CONDITIONS FOR SHEET PILE:

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Payment Terms – 50% DOWNPAYMENT 50% BALANCE BEFORE DELIVERY

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Offer is valid within 15 days from date above

All other terms and conditions to be mutually agreed prior to confirmation of order.

Thank you and we look forward to receiving your valued order soon.

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JAY LANCE KERWIN L. CINCO
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SALES QUOTATION

March 20, 2018

RD JORGE U. SEBASTIAN JR.
Regional Director - DPWH Region 9 Office
Tetuan, Zamboanga City

CC: DPWH Design and Planning Division
DPWH Region 9 Office
Tetuan, Zamboanga City

Subject : Steel Sheet Pile Quotation

Dear RD Jorge,

Please see our offer for steel sheet piles:

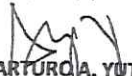
Description	Unit Price
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STEEL SHEET PILES 400mm x 125mm x 13mm x 60 kg/m x 12meters SECTION MODULUS: 1340 CM3/M	Php 47,860.00
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TERMS AND CONDITION:

- Vat inclusive and Cash before delivery
- Delivered Zamboanga City Port
- Subject to change without prior notice
- Subject to availability
- Price validity 7 days

Thank you.

Very truly yours,


ARTURO A. YUTIG, JR.
Sales Manager