

Department of Public Works and Highways

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

PROGRAM OF WORK (For all types of Project)

NAME/LOCATION OF PROJECT : Widening of Permanent Bridges - Dicayo Bridge (BO0425MN) along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte	Appropriation	:	P	113,600,000.00
	Source of Funds	:		CY-2017
	Issued Obligated Authority	:		
	Released	:		
	Cal. Days to Complete	:	252.00	Cal. Days
PROJECT CATEGORY : NATIONAL ROAD	Desirable Starting Date	:		Upon Approval
	Mode of Implementation	:		By Contract
PROJECT DESCRIPTION : Scope of Work : Widening of Bridge Approaches Road Width : Subbase Course : PCCP :	Limits	:		
	Bridge	:		KO1847+807.79 - KO1847+963.63
		:		
		:		
	Net Length:	:	155.84	In.m

MINIMUM EQUIPMENT REQUIREMENT :			TECHNICAL PERSONNEL REQUIRED :		
DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.
Dumptruck	4	Batching Plant	1	Project Engineer	1
Payloader	2	Transit Mixer	1	Materials Engineer	1
Backhoe	2	Truck Mounted Crane	1	Geometric Control	1
Water Truck	2	Concrete Mixer	1	Foreman	1
Bullduzer	2	Drop Hammer	1	Materials Lab. Tech	1
Cargo Truck	2	Vibro Hammer	1	Mason	10
Service Crane	1	Jack Hammer	1	Carpenter	6
Bar Cutter	2	Air Compressor	1	Laborers (Skilled)	10
Bar Bender	2	Concrete Vibrator	2	Laborers (Unskilled)	20
Cutting Outfit	2	Generator Set	1		

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART A: FACILITIES FOR THE ENGINEERS						
A.1.1 (3)	Bunkhouse (7.00m X 9.00m)	0.451	l.s	1.00	400,000.00	400,000.00
PART B: OTHER GENERAL REQUIREMENTS						
B.4(5)	Bridge Survey and Staking	0.143	l.s	1.00	126,647.97	126,647.97
B.5	Project Billboard	0.006	each	2.00	5,264.90	2,632.45
B.7	Occupational Safety and Health Program	0.204	mon	8.40	180,706.40	21,512.67
B.9	Mobilization and Demobilization	0.895	l.s	1.00	792,686.00	792,686.00
PART F: BRIDGE CONSTRUCTION						
101(6)	Removal of Structures and Obstructures	0.568	cu.m	250.00	503,410.63	2,013.64
101(7)a	Removal of Structures and Obstructures	0.484	kg	83,833.00	428,670.84	5.11
103(1)a	Structure Excavation	0.032	cu.m	68.00	28,766.21	423.03
103(2)a	Bridge Excavation (Common Soil)	2.963	cu.m	11,373.59	2,625,135.46	230.81
400(6)	Structural Steel Sheet Piles, Furnished	2.747	ln.m	900.00	2,433,660.19	2,704.07
400(12)	Structural Steel Sheet Piles, Driven	1.078	ln.m	900.00	954,819.00	1,060.91
400(16)	Test Piles, Furnished and Driven	0.063	m	12.00	55,929.28	4,660.77
400(27)a	Pile Integrity Testing	0.265	each	6.00	235,133.91	39,188.99
400(28)	High Strain Dynamic Testing (PDA)	0.293	each	3.00	259,689.08	86,563.03
400(23)a8	Bored Piles (1.50m dia)	6.227	m	108.00	5,517,882.54	51,091.51

400(23)a11	Bored Piles (1.80m dia)	13.321	m	224.00	11,803,583.06	52,694.57
400(24)h2	Permanent Casing (1.5m dia. X 12mm)	2.139	m	48.00	1,895,439.60	39,488.33
400(24)K1	Permanent Casing (1.8m dia. X 12mm)	4.321	m	96.00	3,828,354.30	39,878.69
401(2)a	Concrete Railing	1.507	ln.m	310.00	1,335,548.22	4,308.22
403(5)	Structural Steel Furnished, Fabricated and Erected, Expansion Dam	0.259	kg	1,187.00	229,202.32	193.09
403(5)	Structural Steel Furnished, Fabricated and Erected, Craneway	18.717	kg	85,890.00	16,584,825.17	193.09
404 (1)a	Reinforcing Steel Bar, Grade 40	0.781	kg.	11,143.00	692,337.34	62.13
404 (1)b	Reinforcing Steel Bar, Grade 60	10.369	kg.	142,274.14	9,187,662.83	64.58
405 (1)b3	Structural Concrete, Class A, 27.58MPa @ 28th days	7.652	cu.m	751.86	6,780,324.22	9,018.07
406(1)g5	PSC Girder, AASHTO Type V, L=30.00 meters	17.558	each	16.00	15,557,082.39	972,317.65
406(1)g10	PSC Girder, AASHTO Type V, L=35.00 meters	5.578	each	4.00	4,942,594.97	1,235,648.74
407(8)	Lean Concrete	0.022	cu.m	4.00	19,648.04	4,912.01
412 (1)	Elastomeric Bearing Pad	0.277	each	40.00	245,270.80	6,131.77
414	Forms and Falseworks	1.079	ls	1.00	956,137.68	956,137.68
TOTAL		100.000			88,606,413.36	

Name of Project : Widening of Permanent Bridges - Dicayo Bridge (BO0425MN) along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Station Limits : Bridge : KO1847+807.79 - KO1847+963.63

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1 Materials	64.14	72,865,506.51
A.2 Labor	2.72	3,087,836.41
A.3 Equipment Expenses	11.14	12,653,070.44
SUB-TOTAL (DIRECT COST)	78.00	P 88,606,413.36
B. INDIRECT COST (Per DO #197)		
B.1 Overhead, Contingency & Misc. (10% Max. of D.C.)	7.71	8,763,302.10
B.2 Profit (8% Max. D.C.)	6.18	7,025,098.19
C. VAT (5% of D.C. and I.C. per D.O. # 197)	4.59	5,219,740.68
SUB-TOTAL (CONTRACT COST)	96.49	P 109,614,554.32
II. ESTIMATED GOVERNMENT EXPENDITURES		
1 Engineering and Administrative Overhead (3.5%)	3.50	3,976,000.00
2 Detailed Engineering (1%)		
3 Reserved for the Payment of RROW)	0.01	9,445.68
4 Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	P 113,600,000.00

Prepared by:


JERALD R. BARRERA
Engineer II

Submitted by:


LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval:


CAYAMOMBAO D. DIA
Assistant Regional Director

APPROVED:


JORGE U. SEBASTIAN, JR., CESO III
Regional Director

APPROVED BUDGET FOR THE CONTRACT

Widening of Permanent Bridges - Dicayo Bridge (BO0425/MN) along Dipolog - Sindangan - Illoy Road, Zamboanga del Norte

Length : 155.84 In.m.

Project Name and Location

Contract Duration : Calendar Days

Item No.	Description	Quantity	Unit	Estimated Direct Cost	MARK-UP IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	TOTAL COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) = (5)X(8)	(10) = [(5)+(9)]*5%	(11) = (9) + (10)	(12) = (5) + (11)	(13) = (12) / (3)
PART A, FACILITIES FOR THE ENGINEERS												
A.1.1 (3)	Bunkhouse (7.00m X 9.00m)	1.00	ls	400,000.00	10.00	8.00	18.00	72,000.00	23,600.00	95,600.00	495,600.00	495,600.00
	Sub-Total of Part A			400,000.00				72,000.00	23,600.00	95,600.00	495,600.00	
PART B, OTHER GENERAL REQUIREMENTS												
B.4(5)	Bridge Survey and Staking	1.00	ls	126,647.97	10.00	8.00	18.00	22,796.64	7,472.23	30,268.87	156,916.84	156,916.84
B.5	Project Billboard	2.00	each	5,264.90	10.00	8.00	18.00	947.68	310.63	1,258.31	6,523.21	3,261.61
B.7	Occupational Safety and Health Program	8.40	mon	180,706.40	0.00	8.00	8.00	14,456.51	9,758.15	24,214.66	204,921.06	24,395.36
B.9	Mobilization and Demobilization	1.00	ls	792,686.00	0.00	0.00	0.00	-	39,634.30	39,634.30	832,320.30	832,320.30
	Sub-Total of Part B			1,105,305.27				38,200.83	57,175.31	95,376.13	1,200,681.41	
PART F, BRIDGE CONSTRUCTION												
101(6)	Removal of Structures and Obstructions	250.00	c.u.m	503,410.63	10.00	8.00	18.00	90,613.91	29,701.23	120,315.14	623,725.76	2,494.90
101(7)a	Removal of Structures and Obstructions	83,833.00	kg	428,670.84	10.00	8.00	18.00	77,160.75	25,291.58	102,452.33	531,123.18	6.34
103(1)a	Structure Excavation	68.00	c.u.m	28,766.21	10.00	8.00	18.00	5,177.92	1,697.21	6,875.12	35,641.33	524.14
103(2)a	Bridge Excavation (Common Soil)	11,373.59	c.u.m	2,625,135.46	10.00	8.00	18.00	472,524.38	154,882.99	627,407.38	3,252,542.84	285.97
401(2)a	Concrete Railing	310.00	In.m	1,335,548.22	10.00	8.00	18.00	240,398.68	78,797.35	319,196.03	1,654,744.25	5,337.88
404 (1)a	Reinforcing Steel Bar, Grade 40	11,143.00	kg.	692,337.34	10.00	8.00	18.00	124,620.72	40,847.90	165,468.62	857,805.96	76.98
404 (1)b	Reinforcing Steel Bar, Grade 60	142,274.14	kg.	9,187,662.83	10.00	8.00	18.00	1,653,779.31	542,072.11	2,195,851.42	11,383,514.24	80.01
405 (1)b3	Structural Concrete, Class A, 27.58MPa @ 28th days	751.86	c.u.m	6,780,324.22	10.00	8.00	18.00	1,220,456.36	400,039.13	1,620,497.49	8,400,821.71	11,173.39
406(1)g5	PSC Girder, AASHTO Type V, L=30.00 meters	16.00	each	15,557,082.39	10.00	8.00	18.00	2,800,274.83	917,867.86	3,718,142.69	19,275,225.08	1,204,701.57
406(1)g10	PSC Girder, AASHTO Type V, L=35.00 meters	4.00	each	4,942,594.97	10.00	8.00	18.00	889,667.09	291,613.10	1,181,280.20	6,123,875.17	1,530,968.79
400(6)	Structural Steel Sheet Piles, Furnished	900.00	In.m	2,433,660.19	10.00	8.00	18.00	438,058.83	143,585.95	581,644.78	3,015,304.97	3,350.34
400(12)	Structural Steel Sheet Piles, Driven	900.00	In.m	954,819.00	10.00	8.00	18.00	171,867.42	56,334.32	228,201.74	1,183,020.74	1,314.47
400(16)	Test Piles, Furnished and Driven	12.00	m	55,929.28	10.00	8.00	18.00	10,067.27	3,299.83	13,367.10	69,296.37	5,774.70
400(27)a	Pile Integrity Testing	6.00	each	235,133.91	10.00	8.00	18.00	42,324.10	13,872.90	56,197.00	291,330.91	48,555.15
400(28)	High Strain Dynamic Testing (PDA)	3.00	each	259,689.08	10.00	8.00	18.00	46,744.03	15,321.66	62,065.69	321,754.77	107,251.59
400(23)a8	Bored Piles (1.50m dia)	108.00	m	5,517,882.54	10.00	8.00	18.00	993,218.86	325,555.07	1,318,773.93	6,836,656.47	63,302.37
400(23)a11	Bored Piles (1.80m dia)	224.00	m	11,803,583.06	10.00	8.00	18.00	2,124,644.95	696,411.40	2,821,056.35	14,624,639.41	65,288.57
400(24)h2	Permanent Casing (1.5m dia. X 12mm)	48.00	m	1,895,439.60	10.00	8.00	18.00	341,179.13	111,830.94	453,010.06	2,348,449.66	48,926.03
400(24)k1	Permanent Casing (1.8m dia. X 12mm)	96.00	m	3,828,354.30	10.00	8.00	18.00	689,103.77	225,872.90	914,976.68	4,743,330.98	49,409.70
407(8)	Lean Concrete	4.00	c.u.m	19,648.04	10.00	8.00	18.00	3,536.65	1,159.23	4,695.88	24,343.92	6,085.98
412 (1)	Elastomeric Bearing Pad	40.00	each	245,270.80	10.00	8.00	18.00	44,148.74	14,470.98	58,619.72	303,890.52	7,597.26
414	Forms and Falseworks	1.00	ls	956,137.68	10.00	8.00	18.00	172,104.78	56,412.12	228,516.91	1,184,654.59	1,184,654.59
403(6)	Structural Steel Furnished, Fabricated and Erected, Expansion Dam	1,187.00	kg	229,202.32	10.00	8.00	18.00	41,256.42	13,522.94	54,779.36	283,981.68	239.24
403(6)	Structural Steel Furnished, Fabricated and Erected, Craneway	85,890.00	kg	16,584,825.17	10.00	8.00	18.00	2,985,268.53	978,504.69	3,963,773.22	20,548,598.39	239.24
	Sub-Total of Part F			87,101,108.08				15,678,199.46	5,138,945.38	20,817,144.83	107,918,272.92	
	TOTAL			88,606,413.36				15,788,400.28	5,219,740.68	21,008,140.97	109,614,554.32	

Prepared by:

Recommending Approval:

APPROVED:

BELEN A. SAPALIEDA

Head BAC-FWG

CAYANOMBABO D. DIA

OIC/Assistant Regional Director

JORGE V. SEBASTIAN, CESO III

Regional Director

Item No.	Description	Quantity	Unit	Labor	Equipment	Materials	OCM	Profit	VAT	TOTAL
A.1.1 (3)	Bunkhouse (7.00m X 9.00m)	1.00	ls	-	-	400,000.00	40,000.00	32,000.00	23,600.00	495,600.00
B.4(5)	Bridge Survey and Staking	1.00	ls	93,506.11	18,310.61	14,831.25	12,664.80	10,131.84	7,472.23	156,916.84
B.5	Project Billboard	2.00	each	434.90	-	4,830.00	526.49	421.19	310.63	6,523.21
B.7	Occupational Safety and Health Program	8.40	mon	163,346.40	-	17,360.00	-	14,456.51	9,758.15	204,921.06
B.9	Mobilization and Demobilization	1.00	ls	-	792,686.00	-	-	-	39,634.30	832,320.30
101(6)	Removal of Structures and Obstructions	250.00	cum	44,801.25	396,109.38	62,500.00	50,341.06	40,272.85	29,701.23	623,725.76
101(7)a	Removal of Structures and Obstructions	83,833.00	kg	15,023.29	129,034.52	284,613.04	42,867.08	34,293.67	25,291.58	531,123.18
103(1)a	Structure Excavation	68.00	cum	550.97	28,215.24	-	2,876.62	2,301.30	1,697.21	35,641.33
103(2)a	Bridge Excavation (Common Soil)	11,373.59	cum	123,659.36	2,501,476.11	-	262,513.55	210,010.84	154,882.99	3,252,542.84
401(2)a	Concrete Railing	310.00	ln.m	174,615.97	363,913.58	797,018.68	133,554.82	106,843.86	78,797.35	1,654,744.25
404 (1)a	Reinforcing Steel Bar, Grade 40	11,143.00	kg.	32,780.85	94,049.24	565,507.25	69,233.73	55,386.99	40,847.90	857,805.96
404 (1)b	Reinforcing Steel Bar, Grade 60	142,274.14	kg.	418,546.81	1,227,163.86	7,541,952.16	918,766.28	735,013.03	542,072.11	11,383,514.24
405 (1)b3	Structural Concrete, Class A, 27.58MPa @ 28th days	751.86	cum	950,635.62	500,306.44	5,329,382.16	678,032.42	542,425.94	400,039.13	8,400,821.71
406(1)g5	PSC Girder, AASHTO Type V, L=30.00 meters	16.00	each	6,933.08	142,149.31	15,408,000.00	1,555,708.24	1,244,566.59	917,867.86	19,275,225.08
406(1)g10	PSC Girder, AASHTO Type V, L=35.00 meters	4.00	each	1,980.88	40,614.09	4,900,000.00	494,259.50	395,407.60	291,613.10	6,123,875.17
400(6)	Structural Steel Sheet Piles, Furnished	900.00	ln.m	8,797.69	48,862.50	2,376,000.00	243,366.02	194,692.82	143,585.95	3,015,304.97
400(12)	Structural Steel Sheet Piles, Driven	900.00	ln.m	99,835.50	830,467.50	24,516.00	95,481.90	76,385.52	56,334.32	1,183,020.74
400(16)	Test Piles, Furnished and Driven	12.00	m	665.57	2,972.75	52,290.96	5,592.93	4,474.34	3,299.83	69,296.37
400(27)a	Pile Integrity Testing	6.00	each	1,996.71	29,067.00	204,070.20	23,513.39	18,810.71	13,872.90	291,330.91
400(28)	High Strain Dynamic Testing (PDA)	3.00	each	3,177.18	107,301.51	149,210.40	25,968.91	20,775.13	15,321.66	321,754.77
400(23)a8	Bored Piles (1.50m dia)	108.00	m	81,582.07	1,000,428.61	4,435,871.87	551,788.25	441,430.60	325,555.07	6,836,656.47
400(23)a11	Bored Piles (1.80m dia)	224.00	m	187,632.04	2,383,830.96	9,232,120.06	1,180,358.31	944,286.64	696,411.40	14,624,639.41
400(24)h2	Permanent Casing (1.5m dia. X 12mm)	48.00	m	8,321.55	73,930.53	1,813,187.52	189,543.96	151,635.17	111,830.94	2,348,449.66
400(24)K1	Permanent Casing (1.8m dia. X 12mm)	96.00	m	20,021.77	177,877.97	3,630,454.56	382,835.43	306,268.34	225,872.90	4,743,330.98
407(8)	Lean Concrete	4.00	cum	1,829.51	1,543.62	16,274.90	1,964.80	1,571.84	1,159.23	24,343.92
412 (1)	Elastomeric Bearing Pad	40.00	each	4,770.80	500.00	240,000.00	24,527.08	19,621.66	14,470.98	303,890.52
414	Forms and Frameworks	1.00	ls	395,368.80	455,768.88	105,000.00	95,613.77	76,491.01	56,412.12	1,184,654.59
403(5)	Structural Steel Furnished, Fabricated and Erected, Expansion Dam	1,187.00	kg	3,367.30	17,809.57	208,025.45	22,920.23	18,336.19	13,522.94	283,981.68
403(5)	Structural Steel Furnished, Fabricated and Erected, Craneway	85,890.00	kg	243,654.43	1,288,680.69	15,052,490.05	1,658,482.52	1,326,786.01	978,504.69	20,548,598.39
TOTAL				3,087,836.41	12,653,070.44	72,865,506.51	8,763,302.10	7,025,098.19	5,219,740.68	109,614,554.32

Name of Project : Widening of Permanent Bridge, Dicaayo Bridge (BO0425MN) along Dipolog - Sindangan - Lilo, Zamboanga del Norte

[illegible]

Prepared by:

Submitted by:

APPROVED:

JERALD R. BARRERA
Engineer II

LEONCIO B. SOLAMILLO
Chief, Construction Division

JORGE U. SEBASTIAN, UPR CESO III
Regional Director

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : A.1.1 (3) Bunkhouse (7.00m X 9.00m)
Unit of Measurement : ls
Output per hour :
Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A				P	0.00
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
Sub-total for B				P	0.00
C.	Total (A+B)				P 0.00
D.	Output/day 0.00 ls /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a Bunkhouse (7.00m X 9.00m)	1	ls	400,000.00	400,000.00
Sub-total for E				P	400,000.00
F.	Direct Cost (C+E)				400,000.00
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	40,000.00
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	32,000.00
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	23,600.00
J.	Total Unit Cost				495,600.00

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : B.4(5) Bridge Survey and Staking

Unit of Measurement : l.s

Output per hour : 0.04 km

Quantity : 1.00 0.42

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	(For Field Works)				
	a. Geodetic Engineer	1	11.20	833.31	9,333.07
	b. Skilled Laborer	3	11.20	443.20	14,891.52
	c. Laborer	3	11.20	342.24	11,499.26
	(For Office Works)				
	a. Geodetic Engineer	1	33.60	833.31	27,999.22
	b. Skilled Laborer	2	33.60	443.20	29,783.04
Sub-total for A				P	93,506.11
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories	1	11.20	800.00	8,960.00
	Minor Tools (10% of labor)				9,350.61
Sub-total for B				P	18,310.61
C. Total (A+B)				P	111,816.72
D. Output/day 0.30 l.s /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Standard Stake Plan (800 mm x 910 mm)	40.00	pcs	200.00	8,000.00
	b. Blue Printing	175.00	pcs	35.00	6,125.00
	Miscellaneous (5% of Materials)				706.25
Sub-total for E				P	14,831.25
F. Direct Cost (C+E)					126,647.97
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		12,664.80
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		10,131.84
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		7,472.23
J. Total Unit Cost					156,916.84

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : B.5 Project Billboard

Unit of Measurement : each

Output per hour :

Quantity : 2.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction 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 Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	0.00
C.	Total (A+B)				P 434.90
D.	Output/day 0.00 each /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Marine Plywood 3/16" thk. X 4' x 8'	2.00	pc	445.00	890.00
	b. Tarpaulin (4' x 8')	2.00	pc	1,000.00	2,000.00
	c. Assorted Sizes Lumber	100.00	bd. Ft	18.00	1,800.00
	d. Assorted Sizes CW Nails	2.00	kg	70.00	140.00
Sub-total for E				P	4,830.00
F.	Direct Cost (C+E)				5,264.90
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	526.49
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	421.19
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	310.63
J.	Total Unit Cost				3,261.61

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

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

Unit of Measurement : mon

Output per hour :

Quantity : 8.40

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practitioner	1	126.00	611.92	77,101.92
	b. First Aider	1	252.00	342.24	86,244.48
Sub-total for A					P 163,346.40
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
Sub-total for B					P 0.00
C.	Total (A+B)				P 163,346.40
D.	Output/day 0.00 mon /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Medical Supplies	1.00	set	5,000.00	5,000.00
	b. Pairs, Rubber Boots Men, Long with Steel Toe, Black	24.00	pair	400.00	9,600.00
	c. Pairs, Working Gloves (Maong Materials)	24.00	pair	15.00	360.00
	d. Pcs. Rain Coats (Rain Forced, Hip Length Small, Medium & Large)	24.00	pcs	100.00	2,400.00
Sub-total for E					P 17,360.00
F.	Direct Cost (C+E)				180,706.40
G.	Overhead, Contingencies and Miscellaneous		per D.O 197 s 2016		0.00
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		14,456.51
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		9,758.15
J.	Total Unit Cost				24,395.36

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

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

Unit of Measurement : l.s

Output per hour :

Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A				P	0.00
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Low Bed Trailer	2	5.00	34,043.00	340,430.00
	b. Water Truck	2	5.00	8,520.00	85,200.00
	c. Backhoe	2	5.00	12,296.00	122,960.00
	d. Payloader	2	5.00	13,864.00	138,640.00
	e. Dumptruck	3	5.00	7,030.40	105,456.00
Sub-total for B				P	792,686.00
C.	Total (A+B)			P	792,686.00
D.	Output/day 0.00 l.s /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	0.00
F.	Direct Cost (C+E)				792,686.00
G.	Overhead, Contingencies and Miscellaneous			per D.O 197 s 2016	0.00
H.	Contractor's Profit (CP)			per D.O 197 s 2016	0.00
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	39,634.30
J.	Total Unit Cost				832,320.30

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 101(6) Removal of Structures and Obstructures

Unit of Measurement : cu.m

Output per hour : 1.00

Quantity : 250.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	15.63	611.92	9,561.25
	b. Laborer	2	15.63	443.20	13,850.00
	c. Skilled Laborer	4	15.63	342.24	21,390.00
Sub-total for A				P	44,801.25
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2009 ACEL Rates)				
	a. Backhoe w/Breaker	1	7.81	15,984.80	124,881.25
	b. Jackhammer	2	15.63	1,200.00	37,500.00
	c. Air Compressor	1	15.63	7,720.00	120,625.00
	d. Dumptruck	1	1.95	11,360.00	22,187.50
	e. Payloader	1	1.95	13,864.00	27,078.13
	f. Truck Mounted Crane	1	3.91	14,888.00	58,156.25
	g. Cutting Outfit	1	15.63	363.60	5,681.25
Sub-total for B				P	396,109.38
C.	Total (A+B)				P 440,910.63
D.	Output/day 16.00 cu.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	25	set	2,500.00	62,500.00
Sub-total for E				P	62,500.00
F.	Direct Cost (C+E)				503,410.63
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	50,341.06
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	40,272.85
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	29,701.23
J.	Total Unit Cost				2,494.90

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 101(7)a Removal of Structures and Obstructures

Unit of Measurement : kg

Output per hour : 1,000.00

Quantity : 83,833.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	5.24	611.92	3,206.19
	b. Laborer	2	5.24	443.20	4,644.35
	c. Skilled Laborer	4	5.24	342.24	7,172.75
Sub-total for A				P	15,023.29
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane	1	5.24	14,888.00	78,006.61
	b. Service Crane/Cargo Truck	1	5.24	6,264.00	32,820.62
	c. Welding Machine	1	5.24	2,968.00	15,551.02
	d. Cutting Outfit	1	5.24	363.60	1,905.10
	Minor Tools (5% of Labor Cost)				751.16
Sub-total for B				P	129,034.52
C.	Total (A+B)				P 144,057.81
D.	Output/day 16,000.00 kg /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	20.96	set	2,500.00	52,395.63
	b. Welding Rod	167.67	kg	135.00	22,634.91
	c. Rope 1" dia.	4,191.65	m	50.00	209,582.50
Sub-total for E				P	284,613.04
F.	Direct Cost (C+E)				428,670.84
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	42,867.08
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	34,293.67
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	25,291.58
J.	Total Unit Cost				6.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 103(1)a Structure Excavation

Unit of Measurement : cu.m

Output per hour : 20.00

Quantity : 68.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor					
	a. Construction Foreman	1	0.43	611.92	260.07
	b. Laborer	2	0.43	342.24	290.90
Sub-total for A				P	550.97
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)					
	a. Bullduzer	1	0.43	27,032.00	11,488.60
	b. Payloader	1	0.43	13,864.00	5,892.20
	c. Payloader	1	0.09	13,864.00	1,178.44
	d. Dumptruck	2	0.43	11,360.00	9,656.00
Sub-total for B				P	28,215.24
C. Total (A+B)				P	28,766.21
D. Output/day 160.00 cu.m /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials					
Sub-total for E				P	0.00
F. Direct Cost (C+E)					28,766.21
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		2,876.62
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		2,301.30
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		1,697.21
J. Total Unit Cost					524.14

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 103(2)a Bridge Excavation (Common Soil)

Unit of Measurement : cu.m

Output per hour : 20.00

Quantity : 11,373.59

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	71.08	611.92	43,498.29
	b. Skilled	1	71.08	443.20	31,504.84
	c. Laborer	2	71.08	342.24	48,656.22
Sub-total for A				P	123,659.36
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Backhoe	1	71.08	12,296.00	874,060.39
	b. Dumptruck	2	71.08	11,360.00	1,615,049.78
	Minor Tools (10% of Labor)				12,365.94
Sub-total for B				P	2,501,476.11
C. Total (A+B)				P	2,625,135.46
D. Output/day 160.00 cu.m /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	0.00
F. Direct Cost (C+E)					2,625,135.46
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		262,513.55
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		210,010.84
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		154,882.99
J. Total Unit Cost					285.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(6) Structural Steel Sheet Piles, Furnished
Unit of Measurement : In.m
Output per hour : 48.00
Quantity : 900.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	2.34	611.92	1,434.19
	b. Skilled Laborer	4	2.34	443.20	4,155.00
	c. Laborer	4	2.34	342.24	3,208.50
Sub-total for A				P	8,797.69
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane	1	2.34	20,848.00	48,862.50
Sub-total for B				P	48,862.50
C.	Total (A+B)				P 57,660.19
D.	Output/day 384.00 In.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Sheet Pile KSP II (delivered at site)	43,200.00	kg	55.00	2,376,000.00
Sub-total for E				P	2,376,000.00
F.	Direct Cost (C+E)				2,433,660.19
G.	Overhead, Contingencies and Miscellaneous 10% per D.O 197 s 2016				243,366.02
H.	Contractor's Profit (CP) 8% per D.O 197 s 2016				194,692.82
I.	Value Added Tax (VAT) 5% per D.O 197 s 2016				143,585.95
J.	Total Unit Cost				3,350.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(12) Structural Steel Sheet Piles, Driven

Unit of Measurement : In.m

Output per hour : 6.00

Quantity : 900.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	18.75	611.92	11,473.50
	b. Skilled Laborer	6	18.75	443.20	49,860.00
	c. Laborer	6	18.75	342.24	38,502.00
Sub-total for A				P	99,835.50
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane	1	18.75	20,848.00	390,900.00
	b. Vibro Hammer	1	18.75	16,984.00	318,450.00
	c. Gen. Set	1	18.75	3,128.00	58,650.00
	d. Welding Machine	1	18.75	2,968.00	55,650.00
	e. Cutting Outfit	1	18.75	363.60	6,817.50
Sub-total for B				P	830,467.50
C.	Total (A+B)				P 930,303.00
D.	Output/day 48.00 In.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Welding Rod	21.60	kg	135.00	2,916.00
	b. Oxy/Acetylene handling cost	8.64	set	2,500.00	21,600.00
Sub-total for E				P	24,516.00
F.	Direct Cost (C+E)				954,819.00
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	95,481.90
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	76,385.52
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	56,334.32
J.	Total Unit Cost				1,314.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(16) Test Piles, Furnished and Driven

Unit of Measurement : m

Output per hour : 6.00

Quantity : 12.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.13	611.92	76.49
	b. Laborer	6	0.13	443.20	332.40
	c. Skilled Laborer	6	0.13	342.24	256.68
Sub-total for A				P	665.57
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane	1	0.13	14,888.00	1,861.00
	b. Diesel Hammer	1	0.04	9,992.00	374.70
	c. Drop Hammer	1	0.06	1,600.00	100.00
	d. Cutting Outfit	1	0.01	363.60	4.55
	e. Jack Hammer	2	0.06	1,200.00	150.00
	f. Air Compressor	1	0.06	7,720.00	482.50
Sub-total for B				P	2,972.75
C.	Total (A+B)				P 3,638.32
D.	Output/day 96.00 m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Logs	20.40	m	350.00	7,140.00
	b. Lumber	192.00	bd.ft	20.00	3,840.00
	c. Nail/Spike	1.92	kg	68.00	130.56
	d. Oxy/Acetylene	0.60	set	2,500.00	1,500.00
	e. Fabricated RC Pile	12	m	3,306.70	39,680.40
Sub-total for E				P	52,290.96
F.	Direct Cost (C+E)				55,929.28
G.	Overhead, Contingencies and Miscellaneous 10% per D.O 197 s 2016				5,592.93
H.	Contractor's Profit (CP) 8% per D.O 197 s 2016				4,474.34
I.	Value Added Tax (VAT) 5% per D.O 197 s 2016				3,299.83
J.	Total Unit Cost				5,774.70

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(27)a Pile Integrity Testing

Unit of Measurement : each

Output per hour : 1.00

Quantity : 6.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.38	611.92	229.47
	b. Laborer	6	0.38	443.20	997.20
	c. Skilled Laborer	6	0.38	342.24	770.04
Sub-total for A				P	1,996.71
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Pile Integrity Testing and Accessorires	1	0.38	65,000.00	24,375.00
	b. Welding Machine	1	1.50	3,128.00	4,692.00
Sub-total for B				P	29,067.00
C.	Total (A+B)				P 31,063.71
D.	Output/day 16.00 each /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Black Pipe and Accessories	120.00	each	1,700.00	204,000.00
	b. Welding Rod	0.78	kg	90.00	70.20
Sub-total for E				P	204,070.20
F.	Direct Cost (C+E)				235,133.91
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	23,513.39
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	18,810.71
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	13,872.90
J.	Total Unit Cost				48,555.15

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(28) High Strain Dynamic Testing (PDA)
 Unit of Measurement : each
 Output per hour : 1.00
 Quantity : 3.00

Designation		No. of Person	No. of Days	Dally Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.75	611.92	458.94
	b. Laborer	2	0.75	443.20	664.80
	c. Skilled Laborer	4	1.50	342.24	2,053.44
Sub-total for A				P	3,177.18
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Dynamic Pile Testing	1	0.75	103,000.00	77,250.00
	b. Truck Mounted Crane	1	0.75	20,848.00	15,636.00
	c. Drop Hammer	1	0.75	1,600.00	1,200.00
	d. Compressor w/ Jack Hammer	1	1.50	7,720.00	11,580.00
	e. Concrete Vibrator	1	0.09	730.00	68.44
	f. Cutting Outfit	1	0.38	363.60	136.35
	g. Welding Machine	1	0.38	2,968.00	1,113.00
	Minor Tools(10% of Labor Cost)				317.72
Sub-total for B				P	107,301.51
C.	Total (A+B)			P	110,478.69
D.	Output/day 16.00 each /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Casing	3.00	lot	37,564.63	112,693.89
	b. Concrete 3000 psi	8.40	cu.m	3,400.00	28,560.00
	c. Welding Rod	0.75	kg	135.00	101.25
	d. Oxy/Acetylene	0.30	set	2,500.00	750.00
	Miscellaneous (5% of Materials Cost)				7,105.26
Sub-total for E				P	149,210.40
F.	Direct Cost (C+E)				259,689.08
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		25,968.91
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		20,775.13
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		15,321.66
J.	Total Unit Cost				107,251.59

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(23)a8 Bored Piles (1.50m dia)
Unit of Measurement : m
Output per hour : 0.81
Quantity : 108.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A. Labor	a. Construction Foreman	1	8.33	611.92	5,099.33
	b. Laborer	5	8.33	443.20	18,466.67
	c. Skilled Laborer	6	8.33	342.24	17,112.00
	Fabrication of Cage Bar				
	a. Laborer	7	5.42	443.20	16,804.67
	b. Skilled Laborer	13	5.42	342.24	24,099.40
Sub-total for A					P 81,582.07
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2009 ACEL Rates)	a. Drilling Rig	1	3.25	101,096.00	328,562.00
	b. Crawler Crane (45T)	1	8.08	15,648.00	126,488.00
	c. Crawler Crane (25T)	1	8.08	11,072.00	89,498.67
	d. Dump Truck	1	8.08	10,816.00	87,429.33
	e. Wheel Loader	1	8.08	15,728.00	127,134.67
	f. Generator Set	1	8.08	6,070.16	49,067.13
	g. Bentonite Bin	1	5.08	2,240.00	11,386.67
	h. Bentonite Mixer	1	5.08	1,384.00	7,035.33
	i. Water Pump	1	7.17	987.04	7,073.79
	j. Water Truck	1	7.17	8,520.00	61,060.00
	k. Bar Cutter	1	5.42	1,758.00	9,522.50
	l. Bar Bender	1	5.42	2,812.00	15,231.67
	m. Welding Machine	1	6.33	3,128.00	19,810.67
	n. Cutting Outfit	1	6.33	363.60	2,302.80
	o. Tremie Pipe Set	1	1.83	2,560.00	4,693.33
	p. SPT & Desanding Machine	1	2.17	4,472.00	9,689.33
	q. Portable Breaker	2	0.25	673.04	336.52
	r. Air Compressor	1	0.25	3,336.00	834.00
	s. Lighting System/Tower Lights	1	8.08	4,344.00	35,114.00
	Minor Toos (10% of Labor)				8,158.21
Sub-total for B					P 1,000,428.61
C. Total (A+B)					P 1,082,010.67
D. Output/day 12.96 m /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E. Materials	a. Ready Mix Concrete	302.40	cu.m	7,000.00	2,116,800.00
	b. Reinforcing Steel Bar	48,813.84	kg	43.00	2,098,995.12
	c. Tire Wire	838.08	kg	80.00	67,046.40
	d. Oxy/Acetylene	8.42	set	2,500.00	21,060.00
	e. Welding Rod	20.52	kg	135.00	2,770.20
	Miscellaneous (3% of Materials Cost)				129,200.15
Sub-total for E					P 4,435,871.87
F. Direct Cost (C+E)					5,517,882.54
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		551,788.25
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		441,430.60
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		325,555.07
J. Total Unit Cost					63,302.37

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME

: Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(23)ø11 Bored Piles (1.80m dia)
Unit of Measurement : m
Output per hour : 0.73
Quantity : 224.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	19.18	611.92	11,735.45
b. Laborer	5	19.18	443.20	42,498.63
c. Skilled Laborer	6	19.18	342.24	39,381.04
Fabrication of Cage Bar				
a. Laborer	7	13.04	443.20	40,458.70
b. Skilled Laborer	12	13.04	342.24	53,558.22
Sub-total for A				187,632.04

Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2009 ACEL Rates)				
a. Drilling Rig	1	8.05	101,096.00	814,307.51
b. Crawler Crane (45T)	1	18.79	15,648.00	294,096.66
c. Crawler Crane (25T)	1	18.79	11,072.00	208,092.93
d. Dump Truck	1	18.79	10,816.00	203,281.53
e. Wheel Loader	1	18.79	15,728.00	295,600.22
f. Generator Set	1	18.79	6,070.16	114,085.75
g. Bentonite Bin	1	12.27	2,240.00	27,493.70
h. Bentonite Mixer	1	12.27	1,384.00	16,987.18
i. Water Pump	1	17.26	987.04	17,036.58
j. Water Truck	1	17.26	8,520.00	147,057.53
k. Bar Cutter	1	13.04	1,758.00	22,926.25
l. Bar Bender	1	13.04	2,812.00	36,671.56
m. Welding Machine	1	14.58	3,128.00	45,591.67
n. Cutting Outfit	1	14.58	363.60	5,299.59
o. Tremie Pipe Set	1	4.22	2,560.00	10,801.10
p. SPT & Desanding Machine	1	4.99	4,472.00	22,298.74
q. Portable Breaker	2	0.38	673.04	516.30
r. Air Compressor	1	0.38	3,336.00	1,279.56
s. Lighting System/Tower Lights	1	18.79	4,344.00	81,643.40
Minor Tools (10% of Labor)				18,763.20
Sub-total for B				2,383,830.96
Total (A+B)				2,571,463.00

C. Output/day	11.68	m	/day	
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Name and Specifications	Quantity	Unit	Unit Cost	Amount
D. Materials				
a. Ready Mix Concrete	627.20	cu.m	7,000.00	4,390,400.00
b. Reinforcing Steel Bar	101,243.52	kg	43.00	4,353,471.36
c. Tire Wire	2,024.96	kg	80.00	161,996.80
d. Oxy/Acetylene	20.16	set	2,500.00	50,400.00
e. Welding Rod	51.52	kg	135.00	6,955.20
Miscellaneous (3% of Materials Cost)				268,896.70
Sub-total for E				9,232,120.06

Direct Cost (C+E)				11,803,583.06
Overhead, Contingencies and Miscellaneous	10%	per D.O 197 s 2016		1,180,358.31
Contractor's Profit (CP)	8%	per D.O 197 s 2016		944,286.64
Value Added Tax (VAT)	5%	per D.O 197 s 2016		696,411.40
Total Unit Cost				65,288.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(24)h2 Permanent Casing (1.5m dia. X 12mm)

Unit of Measurement : m

Output per hour : 1.60

Quantity : 48.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.88	611.92	1,147.35
	b. Laborer	4	1.88	443.20	3,324.00
	c. Skilled Laborer	6	1.88	342.24	3,850.20
Sub-total for A				P	8,321.55
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane	1	1.88	20,848.00	39,090.00
	b. Vibro Hammer w/ Hydraulic Power Pack	1	0.94	32,944.00	30,885.00
	c. Welding Machine	1	0.94	2,968.00	2,782.50
	d. Cutting Outfit	1	0.94	363.60	340.88
	Minor Tools(10% of Labor Cost)				832.16
Sub-total for B				P	73,930.53
C.	Total (A+B)			P	82,252.08
D.	Output/day 25.60 m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Casing	48.00	m	37,564.63	1,803,102.24
	b. Oxy/Acetylene	3.55	set	2,500.00	8,880.00
	c. Welding Rod	8.93	kg	135.00	1,205.28
Sub-total for E				P	1,813,187.52
F.	Direct Cost (C+E)				1,895,439.60
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		189,543.96
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		151,635.17
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		111,830.94
J.	Total Unit Cost				48,926.03

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 400(24)K1 Permanent Casing (1.8m dia. X 12mm)

Unit of Measurement : m

Output per hour : 1.33

Quantity : 96.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	4.51	611.92	2,760.54
	b. Laborer	4	4.51	443.20	7,997.59
	c. Skilled Laborer	6	4.51	342.24	9,263.64
Sub-total for A				P	20,021.77
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane	1	4.51	20,848.00	94,051.13
	b. Vibro Hammer w/ Hydraulic Power Pack	1	2.26	32,944.00	74,309.77
	c. Welding Machine	1	2.26	2,968.00	6,694.74
	d. Cutting Outfit	1	2.26	363.60	820.15
	Minor Tools(10% of Labor Cost)				2,002.18
Sub-total for B				P	177,877.97
C. Total (A+B)				P	197,899.74
D. Output/day 21.28 m /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Casing	96.00	m	37,564.63	3,606,204.48
	b. Oxy/Acetylene	8.54	set	2,500.00	21,360.00
	c. Welding Rod	21.41	kg	135.00	2,890.08
Sub-total for E				P	3,630,454.56
F. Direct Cost (C+E)					3,828,354.30
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		382,835.43
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		306,268.34
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		225,872.90
J. Total Unit Cost					49,409.70

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 401(2)a Concrete Railing

Unit of Measurement : In.m

Output per hour : 0.83

Quantity : 310.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a Construction Foreman	1	46.52	611.92	28,465.67
	b Skilled	4	46.52	443.20	82,468.19
	c Laborer	4	46.52	342.24	63,682.11
Sub-total for A				P	174,615.97
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a Concrete Vibrator	2	46.52	730.00	67,917.17
	b Bar Cutter	1	46.52	2,812.00	130,810.32
	c Bar Bender	1	46.52	2,812.00	130,810.32
	d Cutting Outfit	1	46.52	363.60	16,914.17
	Minor Tools (10% of Labor)				17,461.60
Sub-total for B				P	363,913.58
C.	Total (A+B)				P 538,529.54
D.	Output/day 6.66 In.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a Ready Mix Concrete	77.50	cu.m.	5,550.00	430,125.00
	b Reinforcing Steel Bar	4,637.60	kg	41.00	190,141.60
	c Plywood 1/2" x 4' x 8'	124.00	pc	656.67	81,427.08
	d Lumber	5,456.00	bd.ft	15.00	81,840.00
	e Assorted CWN	54.56	kg	70.00	3,819.20
	f Tie Wire	91.76	kg	80.00	7,340.80
	g Oxy/Accetylene	0.93	set	2,500.00	2,325.00
Sub-total for E				P	797,018.68
F.	Direct Cost (C+E)				1,335,548.22
G.	Overhead, Contingencies and Miscellaneous 10% per D.O 197 s 2016				133,554.82
H.	Contractor's Profit (CP) 8% per D.O 197 s 2016				106,843.86
I.	Value Added Tax (VAT) 5% per D.O 197 s 2016				78,797.35
J.	Total Unit Cost				5,337.88

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 403(5) Structural Steel Furnished, Fabricated and Erected, Craneway
Unit of Measurement : kg
Output per hour : 245.25
Quantity : 85,890.0

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	43.78	611.92	26,787.87
	b. Leadman	1	43.78	443.20	19,401.86
	c. Skilled Laborer	4	43.78	443.20	77,607.44
	d. Laborer	8	43.78	342.24	119,857.26
Sub-total for A					P 243,654.43
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane (45T)	1	43.78	20,848.00	912,657.86
	b. Drop Hammer (Removal)	1	43.78	1,600.00	70,042.81
	c. Welding Machine	1	43.78	2,968.00	129,929.42
	d. Generator Set	1	43.78	2,737.77	119,850.70
	e. Cutting Outfit	2	43.78	363.60	31,834.46
	Minor Tools (10% of Labor Cost)				24,365.44
Sub-total for B					P 1,288,680.69
C.	Total (A+B)				P 1,532,335.12
D.	Output/day 1,962.00 kg /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Structural Steel (imported) (including fabrication, galvanization pre-trail, assembly, hauling & erection cast, Structural Steel Support)	85,890.00	kg	170.00	14,601,300.00
	b. 1-l beam X 10.0 m.	5,582.85	kg	50.00	279,142.50
	c. 2-Tubular Pipe 0.35mm dia. X 10m	70.43	m	950.75	66,961.13
	d. 4-RSB 30mm dia. X 12 m	1,374.24	kg	41.00	56,343.84
	e. Welding Rod	42.95	kg	135.00	5,797.58
	f. Oxy/Acetylene	17.18	set	2,500.00	42,945.00
Sub-total for E					P 15,052,490.05
F.	Direct Cost (C+E)				16,584,825.17
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	1,658,482.52
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	1,326,786.01
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	978,504.69
J.	Total Unit Cost				239.24

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 406(1)g5 PSC Girder, AASHTO Type V, L=30.00 meters

Unit of Measurement : each

Output per hour : 1.00

Quantity : 16.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	3.50	611.92	2,141.72
	b. Skilled Laborer	4	3.50	342.24	4,791.36
Sub-total for A				P	6,933.08
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2009 ACEL Rates)				
	a. Crawler Crane (60T)	2	3.50	20,208.00	141,456.00
	Minor Tools(10% of Labor Cost)				693.31
Sub-total for B				P	142,149.31
C. Total (A+B)				P	149,082.39
D. Output/day 16.00 each /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. PSCG Type V (delivered at site which includes hauling and handling cost)	480.00	ln.m	32,100.00	15,408,000.00
Sub-total for E				P	15,408,000.00
F. Direct Cost (C+E)					15,557,082.39
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		1,555,708.24
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		1,244,566.59
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		917,867.86
J. Total Unit Cost					1,204,701.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 404 (1)a Reinforcing Steel Bar, Grade 40
Unit of Measurement : kg.
Output per hour : 180.00
Quantity : 11,143.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	7.74	611.92	4,735.16
	b. Skilled Laborer	2	7.74	443.20	6,859.14
	c. Laborer	8	7.74	342.24	21,186.56
Sub-total for A				P	32,780.85
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Bar Cutter	1	5.80	1,758.00	10,202.81
	b. Bar Bender	1	5.80	2,812.00	16,319.85
	c. Cargo Truck	1	5.80	9,696.00	56,272.15
	d. Service Crane	1	1.16	9,696.00	11,254.43
Sub-total for B				P	94,049.24
C.	Total (A+B)			P	126,830.09
D.	Output/day 1,440.00 kg. /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire	501.44	kg	80.00	40,114.80
	b. Reinforcing Steel Bar, Grade 40	12,814.45	kg	41.00	525,392.45
Sub-total for E				P	565,507.25
F.	Direct Cost (C+E)				692,337.34
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		69,233.73
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		55,386.99
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		40,847.90
J.	Total Unit Cost				76.98

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 404 (1)b Reinforcing Steel Bar, Grade 60
Unit of Measurement : kg.
Output per hour : 180.00
Quantity : 142,274.1

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	98.80	611.92	60,458.61
	b. Skilled Laborer	2	98.80	443.20	87,577.64
	c. Laborer	8	98.80	342.24	270,510.56
Sub-total for A				P	418,546.81
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Bar Cutter	1	74.10	1,758.00	130,269.76
	b. Bar Bender	1	49.40	2,812.00	138,914.89
	c. Cargo Truck	1	49.40	9,696.00	478,989.60
	d. Service Crane	1	49.40	9,696.00	478,989.60
Sub-total for B				P	1,227,163.86
C.	Total (A+B)			P	1,645,710.67
D.	Output/day 1,440.00 kg. /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire	6,331.20	kg	80.00	506,495.94
	b. Reinforcing Steel Bar, Grade 60	163,615.26	kg	43.00	7,035,456.22
Sub-total for E				P	7,541,952.16
F.	Direct Cost (C+E)				9,187,662.83
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		918,766.28
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		735,013.03
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		542,072.11
J.	Total Unit Cost				80.01

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 405 (1)b3 Structural Concrete, Class A, 27.58MPA @ 28th days
Unit of Measurement : cu.m
Output per hour : 10.00
Quantity : 751.86

Note: Use Two (2) gangs

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	4.70	611.92	2,875.49
	b. Skilled Laborer	8	4.70	443.20	16,661.22
	c. Laborer	16	4.70	342.24	25,731.66
	Installation & Removal of Formworks/Falseworks				
	a. Construction Foreman	1	93.98	611.92	57,509.77
	b. Skilled Laborer	8	93.98	443.20	333,224.35
	c. Laborer	16	93.98	342.24	514,633.13
Sub-total for A					P 950,635.62
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Transit Mixer	4	4.70	10,544.00	198,190.30
	b. Concrete Vibrator	4	4.70	730.00	13,721.45
	c. Batching Plant	2	2.35	14,076.00	66,144.88
	d. Payloader	2	2.35	13,864.00	65,148.67
	e. Water Truck	2	2.35	19,600.00	92,102.85
	f. Crane w/ Bucket	2	2.35	13,832.00	64,998.30
Sub-total for B					P 500,306.44
C.	Total (A+B)				P 1,450,942.06
D.	Output/day 160.00 cu.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good	75,186.00	bd.ft	15.00	1,127,790.00
	b. Plywood	1,127.79	pc	656.57	740,473.08
	c. Assorted CWN	751.86	kg	70.00	52,630.20
	d. Cement	7,142.67	bag	283.12	2,022,247.01
	e. Sand	375.93	cu.m	1,182.50	444,537.23
	f. Gravel	751.86	cu.m	1,212.50	911,630.25
	g. Curing Compound	751.86	lit	40.00	30,074.40
Sub-total for E					P 5,329,382.16
F.	Direct Cost (C+E)				6,780,324.22
G.	Overhead, Contingencies and Miscellaneous				10% per D.O 197 s 2016 678,032.42
H.	Contractor's Profit (CP)				8% per D.O 197 s 2016 542,425.94
I.	Value Added Tax (VAT)				5% per D.O 197 s 2016 400,039.13
J.	Total Unit Cost				11,173.39

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 403(5) Structural Steel Furnished, Fabricated and Erected, Expansion Dam
Unit of Measurement : kg
Output per hour : 245.25
Quantity : 1,187.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.60	611.92	370.21
	b. Leadman	1	0.60	443.20	268.13
	c. Skilled Laborer	4	0.60	443.20	1,072.53
	d. Laborer	8	0.60	342.24	1,656.43
Sub-total for A				P	3,367.30
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Truck Mounted Crane (45T)	1	0.60	20,848.00	12,612.93
	b. Drop Hammer (Removal)	1	0.60	1,600.00	967.99
	c. Welding Machine	1	0.60	2,968.00	1,795.62
	d. Generator Set	1	0.60	2,737.77	1,656.34
	e. Cutting Outfit	2	0.60	363.60	439.95
	Minor Tools (10% of Labor Cost)				336.73
Sub-total for B				P	17,809.57
C.	Total (A+B)				P 21,176.87
D.	Output/day 1,962.00 kg /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Structural Steel (imported) (including fabrication, galvanization pre-trail, assembly, hauling & erection cast, Structural Steel Support)	1,187.00	kg	170.00	201,790.00
	b. 1-I beam X 10.0 m.	77.16	kg	50.00	3,857.75
	c. 2-Tubular Pipe 0.35mm dia. X 10m	0.97	m	950.75	925.40
	d. 4-RSB 30mm dia. X 12 m	18.99	kg	41.00	778.67
	e. Welding Rod	0.59	kg	135.00	80.12
	f. Oxy/Acetylene	0.24	set	2,500.00	593.50
Sub-total for E				P	208,025.45
F.	Direct Cost (C+E)				229,202.32
G.	Overhead, Contingencies and Miscellaneous 10% per D.O 197 s 2016				22,920.23
H.	Contractor's Profit (CP) 8% per D.O 197 s 2016				18,336.19
I.	Value Added Tax (VAT) 5% per D.O 197 s 2016				13,522.94
J.	Total Unit Cost				239.24

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 406(1)g10 PSC Girder, AASHTO Type V, L=35.00 meters
Unit of Measurement : each
Output per hour : 1.00
Quantity : 4.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.00	611.92	611.92
	b. Skilled Laborer	4	1.00	342.24	1,368.96
Sub-total for A				P	1,980.88
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Crawler Crane (60T)	2	1.00	20,208.00	40,416.00
	Minor Tools(10% of Labor Cost)				198.09
Sub-total for B				P	40,614.09
C.	Total (A+B)				P 42,594.97
D.	Output/day 16.00 each /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. PSCG Type V (delivered at site which includes hauling and handling cost)	140.00	ln.m	35,000.00	4,900,000.00
Sub-total for E				P	4,900,000.00
F.	Direct Cost (C+E)				4,942,594.97
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	494,259.50
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	395,407.60
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	291,613.10
J.	Total Unit Cost				1,530,968.79

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 407(8) Lean Concrete
Unit of Measurement : cu.m
Output per hour : 1.40
Quantity : 4.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.36	611.92	218.54
	b. Skilled Laborer	4	0.36	443.20	633.14
	c. Laborer	8	0.36	342.24	977.83
Sub-total for A				P	1,829.51
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Concrete Mixer	1	0.36	1,376.00	491.43
	b. Water Truck	1	0.04	19,600.00	700.00
	c. Concrete Vibrator	1	0.36	730.00	260.71
	Minor Tools (5% of labor)				91.48
Sub-total for B				P	1,543.62
C.	Total (A+B)			P	3,373.13
D.	Output/day 11.20 cu.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	32.00	bag	283.12	9,059.90
	b. Sand	2.00	cu.m	1,182.50	2,365.00
	c. Gravel	4.00	cu.m	1,212.50	4,850.00
Sub-total for E				P	16,274.90
F.	Direct Cost (C+E)				19,648.04
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	1,964.80
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	1,571.84
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	1,159.23
J.	Total Unit Cost				6,085.98

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 412 (1) Elastomeric Bearing Pad
Unit of Measurement : each
Output per hour : 1.00
Quantity : 40.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	5.00	611.92	3,059.60
	b. Laborer	1	5.00	342.24	1,711.20
Sub-total for A				P	4,770.80
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2009 ACEL Rates)				
	a. Wood/Steel Ladder	1	5.00	100.00	500.00
Sub-total for B				P	500.00
C. Total (A+B)				P	5,270.80
D. Output/day 8.00 each /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Elastomeric Bearing Pad	40.00	each	6,000.00	240,000.00
	Miscellaneous (10% of Labor)				
Sub-total for E				P	240,000.00
F. Direct Cost (C+E)					245,270.80
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		24,527.08
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		19,621.66
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		14,470.98
J. Total Unit Cost					7,597.26

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Widening of Dicayo Bridge along Dipolog - Sindangan - Liloy Road, Zamboanga del Norte

Item No./Description : 414 Forms and Falseworks
Unit of Measurement : l.s
Output per hour :
Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	30.00	611.92	18,357.60
	b. Skilled Laborer	16	30.00	443.20	212,736.00
	c. Laborer	16	30.00	342.24	164,275.20
Sub-total for A					P 395,368.80
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2009 ACEL Rates)				
	a. Cutting Outfit (Installation)	1	20.00	363.60	7,272.00
	b. Dumptruck (Removal)	3	12.00	11,360.00	408,960.00
	Minor Tools (10% of labor)				39,536.88
Sub-total for B					P 455,768.88
C. Total (A+B)					P 851,137.68
D. Output/day 0.00 l.s /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Scaffoldings (H-Frame, Clamp BI Pipe)	1.00	l.s	100,000.00	100,000.00
	b. Miscellaneous (5% of Materials)				5,000.00
Sub-total for E					P 105,000.00
F. Direct Cost (C+E)					956,137.68
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		95,613.77
H. Contractor's Profit (CP)			8% per D.O 197 s 2016		76,491.01
I. Value Added Tax (VAT)			5% per D.O 197 s 2016		56,412.12
J. Total Unit Cost					1,184,654.59