

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 104(1)a Embankment, from Excavation
 Unit of Measurement: cu.m.
 Output per hour: 50.00
 Quantity: 155.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work:				
	a. Const. Foreman	1	0.32	611.92	196.81
	b. Unskilled Labor	2	0.32	342.24	220.15
	Spreading and Compaction				
	a. Const. Foreman	1	0.39	611.92	237.12
	b. Unskilled Labor	2	0.39	342.24	265.24
Sub-total for A				P	919.31
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	For Excavation Work:				
	a. Bulldozer, D6H SERIES II PSDS/DD	1	0.32	27,032.00	8,694.17
	b. Payloader (1.50 cu.m.)	1	0.32	13,864.00	4,459.01
	c. Dump Truck (12 cu.yd.)	2	0.32	11,360.00	7,307.32
	Spreading and Compaction:				
	a. Motorized Road Grader (140 hp), G170A	1	0.39	17,384.00	6,736.30
	b. Vibratory Roller (10 mt), SD100C	1	0.39	14,768.00	5,722.60
	c. Water Truck/Pump (16000 L)	1	0.10	19,600.00	1,898.75
Sub-total for B				P	34,818.15
C.	Total (A+B)				35,737.46
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				35,737.46
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		3,573.75
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,859.00
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,108.51
J.	Total Unit Cost				285.67

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 104(1)b Embankment, Common Borrow
 Unit of Measurement: cu.m.
 Output per hour: 50.00
 Quantity: 78.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.20	611.92	119.32
	b. Unskilled Labor	2	0.20	342.24	133.47
Sub-total for A				P	252.80
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G170A	1	0.20	17,384.00	3,389.88
	b. Vibratory Roller (10 mt), SD100C	1	0.20	14,768.00	2,879.76
	c. Water Truck/Pump (16000 L)	1	0.05	19,600.00	955.50
Sub-total for B				P	7,225.14
C.	Total (A+B)				7,477.94
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Common Borrow (with 25% Shrinkage Factor)	97.50	cu.m.	448.70	43,748.25
Sub-total for E				P	43,748.25
F.	Direct Cost (C + E)				51,226.19
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	5,122.62
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	4,098.10
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	3,022.35
J.	Total Unit Cost				813.71

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 105 Subgrade Preparation
 Unit of Measurement: sq.m.
 Output per hour: 300.00
 Quantity: 371.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.15	611.92	94.59
	b. Unskilled Labor	2	0.15	342.24	105.81
Sub-total for A				P	200.40
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G170A	1	0.15	17,384.00	2,687.28
	b. Vibratory Roller (10 mt), SD100C	1	0.15	14,768.00	2,282.89
	c. Water Truck/Pump (16000 L)	1	0.04	19,600.00	757.46
Sub-total for B				P	5,727.62
C.	Total (A+B)				5,928.02
D.	Output/day	2,400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				5,928.02
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	592.80
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	474.24
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	349.75
J.	Total Unit Cost				19.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 200 Aggregate Subbase Course

Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 123.00

0.30 m. thk., compacted volume, includes widening

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.31	611.92	188.17
	b. Unskilled Labor	2	0.31	342.24	210.48
Sub-total for A				P	398.64
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	0.31	17,384.00	5,345.58
	b. Vibratory Roller (10 mt), SD100DC	1	0.31	14,768.00	4,541.16
	c. Water Truck/Pump (16000 L)	1	0.08	19,600.00	1,506.75
Sub-total for B				P	11,393.49
C.	Total (A+B)				11,792.13
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Aggregate Subbase Course (w/ 15% Shrinkage Factor)	141.45	cu.m.	981.75	138,868.54
Sub-total for E				P	138,868.54
F.	Direct Cost (C + E)				150,660.67
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	15,066.07
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	12,052.85
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	8,888.98
J.	Total Unit Cost				1,517.63

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 311(1)e1 Portland Cement Concrete Pavement, 0.28 m. thk.
 Unit of Measurement: sq.m.
 Output per hour: 57.50
 Quantity: 153.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.33	611.92	203.53
	b. Skilled Labor	4	0.33	443.20	589.65
	c. Unskilled Labor	12	0.33	342.24	1,365.98
Sub-total for A				P	2,159.16
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	0.33	10,544.00	14,028.10
	b. Concrete Vibrator	2	0.33	730.00	485.61
	c. Concrete Batch Plant (30 cu.m.)	1	0.33	14,076.00	4,681.80
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.33	13,864.00	4,611.29
	e. Concrete Screeder (5.5 hp)	1	0.33	4,360.00	1,450.17
	f. Water truck/Pump (16000 L)	1	0.33	19,600.00	6,519.13
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	0.33	261.04	86.82
	h. Bar Cutter, Single Phase	1	0.03	1,758.00	58.47
	Minor Tools 5% of Labor				107.96
Sub-total for B				P	32,029.36
C.	Total (A+B)				34,188.52
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	76.50	kg.	38.00	2,907.00
	b. Curing Compound	44.37	L	35.00	1,552.95
	c. Asphalt Sealant	26.01	L	100.00	2,601.00
	d. Steel Forms (Rental)	70.38	m	52.00	3,659.76
	e. Sand	23.56	cu.m.	1,202.75	28,339.20
	f. Gravel	42.84	cu.m.	1,202.75	51,525.81
	g. Cement	406.98	bag	270.00	109,884.60
	h. Concrete Saw (Diamond Blade 14" Ø)	0.02	pc.	8,000.00	183.60
	i. Pipe Sleeve, 2" Ø	1.19	m.	101.67	121.33
	j. Grease/Tar	1.19	L	112.50	134.26
Sub-total for E				P	200,909.50
F.	Direct Cost (C + E)				235,098.02
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		23,509.80
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		18,807.84
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		13,870.78
J.	Total Unit Cost				1,903.83

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 311(1)a Portland Cement Concrete Pavement, 0.15 m. thk.
 Unit of Measurement: sq.m.
 Output per hour: 107.33
 Quantity: 83.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.10	611.92	59.15
	b. Skilled Labor	4	0.10	443.20	171.37
	c. Unskilled Labor	12	0.10	342.24	396.99
Sub-total for A					P 627.51
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	0.10	10,544.00	4,076.92
	b. Concrete Vibrator	2	0.10	730.00	141.13
	c. Concrete Batch Plant (30 cu.m.)	1	0.10	14,076.00	1,360.65
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.10	13,864.00	1,340.16
	e. Concrete Screeder (5.5 hp)	1	0.10	4,360.00	421.46
	f. Water truck/Pump (16000 L)	1	0.10	19,600.00	1,894.62
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	0.10	261.04	25.23
	h. Bar Cutter, Single Phase	1	0.01	1,758.00	16.99
	Minor Tools 5% of Labor				31.38
Sub-total for B					P 9,308.54
C.	Total (A+B)				9,936.05
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	27.39	kg.	38.00	1,040.82
	b. Curing Compound	24.07	L	35.00	842.45
	c. Asphalt Sealant	9.96	L	100.00	996.00
	d. Steel Forms (Rental)	38.18	m	52.00	1,985.36
	e. Sand	6.85	cu.m.	1,202.75	8,235.83
	f. Gravel	12.45	cu.m.	1,202.75	14,974.24
	g. Cement	118.69	bag	270.00	32,046.30
	h. Concrete Saw (Diamond Blade 14" Ø)	0.01	pc.	8,000.00	99.60
	i. Pipe Sleeve, 2" Ø	0.65	m.	101.67	65.82
	j. Grease/Tar	0.12	L	112.50	14.01
Sub-total for E					P 60,300.42
F.	Direct Cost (C + E)				70,236.47
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		7,023.65
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		5,618.92
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		4,143.95
J.	Total Unit Cost				1,048.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 101(3)a6 Removal of Structures/Obstructions

Unit of Measurement: sq.m.

Output per hour: 30.67

Quantity: 64.00

*Existing Bridge approach slabs
(Reinforced)*

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.26	611.92	159.63
	b. Unskilled Labor	2	0.26	342.24	178.56
Sub-total for A				P	338.19
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	0.26	15,984.80	4,169.90
	b. Payloader (1.50 cu.m.), LX80-2C	1	0.26	13,864.00	3,616.66
	c. Dump Truck (12 cu.yd.)	1	0.13	11,360.00	1,481.72
	d. Cutting Outfit	1	0.13	363.60	47.43
	Minor Tools 10% of Labor				33.82
Sub-total for B				P	9,349.53
C.	Total (A+B)				9,687.71
D.	Output/day	245.34	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	3.00	set	2,500.00	7,500.00
Sub-total for E				P	7,500.00
F.	Direct Cost (C + E)				17,187.71
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	1,718.77
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	1,375.02
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	1,014.08
J.	Total Unit Cost				332.74

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 101(3)b5 Removal of Structures/Obstructions
 Unit of Measurement: sq.m.
 Output per hour: 32.86
 Quantity: 205.09

Existing PCC Pavements

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.78	611.92	477.44
	b. Unskilled Labor	2	0.78	342.24	534.06
Sub-total for A				P	1,011.50
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	0.78	15,984.80	12,471.93
	b. Payloader (1.50 cu.m.), LX80-2C	1	0.78	13,864.00	10,817.21
	c. Dump Truck (12 cu.yd.)	1	0.39	11,360.00	4,431.75
	Minor Tools 10% of Labor				101.15
Sub-total for B				P	27,822.04
C.	Total (A+B)				28,833.54
D.	Output/day	262.86	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				28,833.54
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,883.35
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,306.68
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,701.18
J.	Total Unit Cost				174.19

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 101(4) Removal of Structures/Obstructions
 Unit of Measurement: In.m.
 Output per hour: 20.00
 Quantity: 183.00

Existing Bridge Sidewalk and Railings

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.14	611.92	699.88
	b. Unskilled Labor	2	1.14	342.24	782.87
Sub-total for A				P	1,482.76
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	1.14	15,984.80	18,282.62
	b. Payloader (1.50 cu.m.), LX80-2C	1	1.14	13,864.00	15,856.95
	c. Dump Truck (12 cu.yd.)	1	0.57	11,360.00	6,496.50
	d. Cutting Outfit	1	0.57	363.60	207.93
	Minor Tools 10% of Labor				148.28
Sub-total for B				P	40,992.27
C.	Total (A+B)				42,475.03
D.	Output/day	160.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	3.00	set	2,500.00	7,500.00
Sub-total for E				P	7,500.00
F.	Direct Cost (C + E)				49,975.03
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		4,997.50
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,998.00
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,948.53
J.	Total Unit Cost				338.36

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 101 (6)a Removal of Structures/Obstructions
 Unit of Measurement: cu.m.
 Output per hour: 2.00
 Quantity: 16.41

Existing Wingwall at abutments

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.03	611.92	627.60
	b. Skilled Labor	1	1.03	443.20	454.56
	c. Unskilled Labor	2	1.03	342.24	702.02
Sub-total for A				P	1,784.18
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	0.51	15,984.80	8,197.21
	b. Payloader (1.50 cu.m.), LX80-2C	1	0.26	13,864.00	3,554.82
	c. Dump Truck (12 cu.yd.)	1	0.51	11,360.00	5,825.55
	d. Cutting Outfit	1	1.03	363.60	372.92
Sub-total for B				P	17,950.49
C.	Total (A+B)				19,734.67
D.	Output/day	16.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	1.64	set	2,500.00	4,102.50
Sub-total for E				P	4,102.50
F.	Direct Cost (C + E)				23,837.17
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,383.72
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,906.97
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,406.39
J.	Total Unit Cost				1,799.77

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 101 (6)b Removal of Structures/Obstructions
 Unit of Measurement: cu.m.
 Output per hour: 10.00
 Quantity: 798.69

Existing Slope Protection at abutments

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	9.98	611.92	6,109.18
	b. Unskilled Labor	2	9.98	342.24	6,833.59
Sub-total for A				P	12,942.77
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	4.99	15,984.80	79,793.12
	b. Payloader (1.50 cu.m.), LX80-2C	1	4.99	13,864.00	69,206.49
	c. Dump Truck (12 cu.yd.)	1	9.98	11,360.00	113,413.98
Sub-total for B				P	262,413.59
C.	Total (A+B)				275,356.36
D.	Output/day	80.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				275,356.36
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		27,535.64
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		22,028.51
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		16,246.03
J.	Total Unit Cost				427.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 103(2)a Bridge Excavation Above Ordinary Water Level
 Unit of Measurement: cu.m.
 Output per hour: 20.00
 Quantity: 630.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.94	611.92	2,409.44
	b. Skilled Labor	1	3.94	443.20	1,745.10
	c. Unskilled Labor	2	3.94	342.24	2,695.14
Sub-total for A				P	6,849.68
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	3.94	12,296.00	48,415.50
	b. Dump Truck (12 cu.yd.)	2	3.94	11,360.00	89,460.00
	Minor Tools 10% of Labor				684.97
Sub-total for B				P	138,560.47
C.	Total (A+B)				145,410.14
D.	Output/day	160.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				145,410.14
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		14,541.01
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		11,632.81
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		8,579.20
J.	Total Unit Cost				285.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 103(2)b Bridge Excavation Below Ordinary Water Level
 Unit of Measurement: cu.m.
 Output per hour: 4.00
 Quantity: 708.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	22.13	611.92	13,538.73
	b. Skilled Labor	1	22.13	443.20	9,805.80
	c. Unskilled Labor	2	22.13	342.24	15,144.12
Sub-total for A				P	38,488.65
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	11.06	12,296.00	136,024.50
	a. Backhoe with Breaker (0.80 cu.m.)	1	22.13	15,984.80	353,663.70
	b. Dump Truck (12 cu.yd.)	1	11.06	11,360.00	125,670.00
	Minor Tools 10% of Labor				3,848.87
Sub-total for B				P	619,207.07
C.	Total (A+B)				657,695.72
D.	Output/day	32.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				657,695.72
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		65,769.57
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		52,615.66
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		38,804.05
J.	Total Unit Cost				1,150.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 400(4)a Precast Concrete Piles, Furnished
 Unit of Measurement: In.m.
 Output per hour: 8.75
 Quantity: 2,240.00

20.00 meters/pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	32.00	611.92	19,581.44
	b. Skilled Labor	4	32.00	443.20	56,729.60
	c. Unskilled Labor	8	32.00	342.24	87,613.44
	Formworks				
	a. Skilled Labor	4	96.00	443.20	170,188.80
	b. Unskilled Labor	8	96.00	342.24	262,840.32
Sub-total for A					P 596,953.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	1	6.40	730.00	4,672.00
	b. Plate Compactor	1	6.40	984.00	6,297.60
	c. Bar Bender	1	12.80	2,812.00	35,993.60
	d. Bar Cutter	1	12.80	1,758.00	22,502.40
	Minor Tools 10% of Labor				59,695.36
Sub-total for B					P 129,160.96
C.	Total (A+B)				726,114.56
D.	Output/day	70.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ready Mix Concrete	374.08	cu.m.	4,530.00	1,694,582.40
	b. Reinforcing Steel Bar	107,520.00	kg.	38.00	4,085,760.00
	c. #16 G.I. Tie Wire (2% of RSB)	2,150.40	kg.	78.00	167,731.20
	d. Forms	34,345.92	bd.ft.	37.00	1,270,799.04
	e. Plywood Marine	600.32	pc.	880.00	528,281.60
	f. Assorted CWN (1 kg./100 bd.ft. of Lumber)	376.32	kg.	50.00	18,816.00
	Casting Bed				
	a. Ready Mix Concrete	67.20	cu.m.	4,200.00	282,240.00
	b. Coco Lumber	3,360.00	bd.ft.	15.00	50,400.00
	c. Base Course (Crushed, Grading A)	67.20	cu.m.	981.75	65,973.60
Sub-total for E					P 8,164,583.84
F.	Direct Cost (C + E)				8,890,698.40
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		889,069.84
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		711,255.87
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		524,551.21
J.	Total Unit Cost				4,917.67

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 400(6) Structural Steel Sheet Piles, Furnished
 Unit of Measurement: In.m.
 Output per hour: 48.00
 Quantity: 1,992.00

6.00 m./pile for Cofferdam

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.19	611.92	3,174.34
	b. Skilled Labor	2	5.19	443.20	4,598.20
	c. Unskilled Labor	2	5.19	342.24	3,550.74
Sub-total for A				P	11,323.28
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	5.19	20,848.00	108,149.00
Sub-total for B				P	108,149.00
C.	Total (A+B)				119,472.28
D.	Output/day	384.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Sheet Piles KSP II (delivered at site)	95,616.00	kg.	50.00	4,780,800.00
Sub-total for E				P	4,780,800.00
F.	Direct Cost (C + E)				4,900,272.28
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		490,027.23
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		392,021.78
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		289,116.06
J.	Total Unit Cost				3,047.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

Unit of Measurement: In.m.

Output per hour: 10.00

Quantity: 1,328.00

6.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	16.60	611.92	10,157.87
	b. Skilled Labor	6	16.60	443.20	44,142.72
	c. Unskilled Labor	6	16.60	342.24	34,087.10
Sub-total for A				P	88,387.70
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	16.60	20,848.00	346,076.80
	b. Vibro Hammer	1	16.60	16,984.00	281,934.40
	c. Gen. Set (876-1000 KVA)	1	16.60	10,373.36	172,197.78
	d. Welding Machine	1	16.60	2,968.00	49,268.80
	e. Cutting Outfit	1	8.30	363.60	3,017.88
Sub-total for B				P	852,495.66
C.	Total (A+B)				940,883.35
D.	Output/day	80.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Welding Rod (1 kg./2000 kg. of Steel Sheet Pile)	31.87	kg.	150.00	4,780.80
	b. Oxy/Acetylene (1 set/5000 kg. of Steel Sheet Pile)	12.75	set	2,500.00	31,872.00
Sub-total for E				P	36,652.80
F.	Direct Cost (C + E)				977,536.15
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	97,753.62
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	78,202.89
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	57,674.63
J.	Total Unit Cost				912.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 400(14) Precast Concrete Piles, Driven

Unit of Measurement: In.m.

Output per hour: 7.20

Quantity: 2,128.00

19.00 m./pile

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
a. Const. Foreman	1	36.94	611.92	22,607.04
b. Leadman	3	36.94	561.36	62,217.40
c. Skilled Labor	15	36.94	443.20	245,606.67
d. Unskilled Labor	15	36.94	342.24	189,658.00
use triple gang of labor and equipment				
Sub-total for A				P 520,089.11
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Truck Mounted Crane (45 T)	3	19.58	20,848.00	1,224,646.27
b. Diesel Hammer (K25 or equivalent)	3	9.98	9,992.00	299,010.60
c. Drop Hammer	3	4.80	1,600.00	23,053.33
d. Cutting Outfit	3	7.39	363.60	8,059.80
e. Jack Hammer	6	7.39	1,200.00	53,200.00
f. Air Compressor (103 Hp)	3	7.39	7,720.00	171,126.67
Minor Tools 10% of Labor				
Sub-total for B				P 1,779,096.67
C. Total (A+B)				2,299,185.78
D. Output/day	57.60	In.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Coco Log	2,128.00	m.	350.00	744,800.00
b. Good Lumber (Falsework)	34,048.00	bd.ft.	37.00	1,259,776.00
c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	340.48	kg.	68.00	23,152.64
d. Oxygen/Acetylene	21.28	set	2,500.00	53,200.00
Sub-total for E				P 2,080,928.64
F. Direct Cost (C + E)				4,380,114.42
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		438,011.44
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		350,409.15
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		258,426.75
J. Total Unit Cost				2,550.26

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

Unit of Measurement: In.m.

Output per hour: 6.00

Quantity: 80.00

20.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.67	611.92	1,019.87
	b. Skilled Labor	6	1.67	443.20	4,432.00
	c. Unskilled Labor	6	1.67	342.24	3,422.40
Sub-total for A				P	8,874.27
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	0.88	20,848.00	18,415.73
	b. Diesel Hammer (K25 or equivalent)	1	0.45	9,992.00	4,496.40
	c. Drop Hammer	1	0.22	1,600.00	346.67
	d. Cutting Outfit	1	0.33	363.60	121.20
	e. Jack Hammer	2	0.33	1,200.00	800.00
	f. Air Compressor (103 Hp)	1	0.33	7,720.00	2,573.33
	Minor Tools 10% of Labor				
Sub-total for B				P	26,753.33
C.	Total (A+B)				35,627.60
D.	Output/day	48.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Log	136.00	m.	350.00	47,600.00
	b. Lumber (Falsework)	1,280.00	bd.ft.	37.00	47,360.00
	c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	12.80	kg.	68.00	870.40
	d. Oxygen/Acetylene	4.00	set	2,500.00	10,000.00
	e. Fabricated R.C. Pile	80.00	m.	2,520.00	201,600.00
Sub-total for E				P	307,430.40
F.	Direct Cost (C + E)				343,058.00
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		34,305.80
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		27,444.64
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		20,240.42
J.	Total Unit Cost				5,313.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 401(2) Concrete Railing
 Unit of Measurement: In.m.
 Output per hour: 1.25
 Quantity: 183.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	18.30	611.92	11,198.14
	b. Leadman	2	18.30	561.36	20,545.78
	c. Skilled Labor	4	18.30	443.20	32,442.24
	d. Unskilled Labor	8	18.30	342.24	50,103.94
	use double gang of labor and equipment				
Sub-total for A				P	114,290.09
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	2	4.58	730.00	6,679.50
	b. Bar Cutter	2	2.29	1,758.00	8,042.85
	c. Bar Bender	2	2.29	2,812.00	12,864.90
	d. Cutting Outfit	2	0.46	363.60	332.69
	Minor Tools 10% of Labor				11,429.01
Sub-total for B				P	39,348.95
C.	Total (A+B)				153,639.04
D.	Output/day	10.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ready Mix Concrete	31.66	cu.m.	4,530.00	143,415.27
	b. Reinforcing Steel Bar	4,538.40	kg.	38.00	172,459.20
	c. Plywood 1/2" x 4' x 8'	109.80	pc.	750.00	82,350.00
	d. Lumber	4,758.00	bd.ft.	37.00	176,046.00
	e. Assorted CWN (1 kg./100 bd.ft. of Lumber)	47.58	kg.	50.00	2,379.00
	f. Tie Wire (2% of RSB)	90.77	kg.	78.00	7,079.90
	g. Oxy/Acetylene (1 set/5000 kg. of steel)	0.92	set	2,500.00	2,287.50
Sub-total for E				P	586,016.87
F.	Direct Cost (C + E)				739,655.91
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		73,965.59
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		59,172.47
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		43,639.70
J.	Total Unit Cost				5,007.83

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 402 Timber Structures (Craneway)

Unit of Measurement: In.m.

Output per hour:

Quantity: 182.00

7.00 meters/span; 91 m. x 2 sides

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	75.00	611.92	45,894.00
	b. Skilled Labor	8	75.00	443.20	265,920.00
	c. Unskilled Labor	8	75.00	342.24	205,344.00
Sub-total for A				P	517,158.00
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	75.00	20,848.00	1,563,600.00
	b. Drop Hammer	1	60.00	1,600.00	96,000.00
	c. Cargo Truck	2	60.00	9,696.00	1,163,520.00
	Minor Tools 10% of Labor				51,715.80
Sub-total for B				P	2,874,835.80
C.	Total (A+B)				3,391,993.80
D.	Output/day	-	span/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Trunks	850.00	pc.	950.00	807,500.00
	b. Coco Lumber - Floor Planks and Running Board	50,000.00	bd.ft.	15.00	750,000.00
	c. 25 mm. dia. x 400 mm. Machine Bolt w/ standard nuts and washer	600.00	kg.	150.00	90,000.00
	d. 25 mm. dia. Steel Bar	4,000.00	kg.	44.00	176,000.00
Sub-total for E				P	1,823,500.00
F.	Direct Cost (C + E)				5,215,493.80
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		521,549.38
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		417,239.50
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		307,714.13
J.	Total Unit Cost				35,505.48

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 403(1) Structural Steel, Furnished, Fabricated and Erected
 Unit of Measurement: kg.
 Output per hour: 245.25
 Quantity: 18,212.95

Expansion Dam & Longitudinal Expansion Joints

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	9.28	611.92	5,680.36
	b. Leadman	1	9.28	561.36	5,211.02
	c. Skilled Labor	4	9.28	443.20	16,456.63
	d. Unskilled Labor	8	9.28	342.24	25,415.70
Sub-total for A				P	52,763.71
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	9.28	20,848.00	193,528.84
	b. Drop Hammer	1	7.43	1,600.00	11,882.05
	c. Welding Machine	1	6.50	2,968.00	19,286.05
	d. Generator Set (1401 - 1500 KW)	1	6.50	21,902.16	142,320.11
	e. Cutting Outfit	2	6.50	363.60	4,725.34
	Minor Tools 10% of Labor				5,276.37
Sub-total for B				P	377,018.76
C.	Total (A+B)				429,782.47
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-trial, assembly, hauling & erection cast) Structural Steel Support	18,212.95	kg.	162.93	2,967,435.94
	b. 1 - I Beam x 10.0 m.	1,183.84	kg.	50.00	59,192.09
	c. 2 - Tubular Pipe 0.35 mm Ø x 10.0 m.	14.93	m.	950.75	14,199.09
	d. 4 - RSB 30 mm. Ø x 12.0 m.	291.41	kg.	38.00	11,073.47
	e. Welding Rod (1 kg./2000 kg. of Steel)	9.11	kg.	150.00	1,365.97
	f. Oxy/Acetylene (1 kg./5000 kg. of Steel)	3.64	set	2,500.00	9,106.48
Sub-total for E				P	3,062,373.04
F.	Direct Cost (C + E)				3,492,155.51
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 22 s 2015		349,215.55
H.	Contractor's Profit (CP)		8% per D.O. 22 s 2015		279,372.44
I.	Value Added Tax (VAT)		5% per D.O. 22 s 2015		206,037.18
J.	Total Unit Cost				237.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 404a Reinforcing Steel, Grade 40

Unit of Measurement: kg.

Output per hour: 180.00

Quantity: 7,208.16

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.01	611.92	3,063.07
	b. Skilled Labor	2	5.01	443.20	4,437.02
	c. Unskilled Labor	8	5.01	342.24	13,705.11
Sub-total for A				P	21,205.21
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Service Crane (25 T, 145 Hp)	1	0.75	11,072.00	8,313.41
	b. Cargo Truck (10 T, 270 Hp)	1	0.75	9,696.00	7,280.24
	c. Bar Cutter	1	2.50	1,758.00	4,399.98
	d. Bar Bender	1	2.50	2,812.00	7,037.97
Sub-total for B				P	27,031.60
C.	Total (A+B)				48,236.81
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	151.37	kg.	78.00	11,806.97
	b. Reinforcing Steel Bar, Grade 40 (with 5% wastage)	7,568.57	kg.	38.00	287,605.58
Sub-total for E				P	299,412.55
F.	Direct Cost (C + E)				347,649.36
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		34,764.94
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		27,811.95
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		20,511.31
J.	Total Unit Cost				59.76

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 404b Reinforcing Steel, Grade 60
 Unit of Measurement: kg.
 Output per hour: 640.00
 Quantity: 120,567.98

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	23.55	611.92	14,409.76
	b. Leadman	4	23.55	561.36	52,876.59
	c. Skilled Labor	8	23.55	443.20	83,493.33
	d. Unskilled Labor	32	23.55	342.24	257,894.91
	use quadruple gang of labor and equipment				
Sub-total for A				P	408,674.59
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Service Crane (25 T, 145 Hp)	4	3.53	11,072.00	156,436.95
	b. Cargo Truck (10 T, 270 Hp)	4	3.53	9,696.00	136,995.37
	c. Bar Cutter	4	11.77	1,758.00	82,796.29
	d. Bar Bender	4	11.77	2,812.00	132,436.39
Sub-total for B				P	508,665.00
C.	Total (A+B)				917,339.59
D.	Output/day	5,120.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	2,531.93	kg.	78.00	197,490.35
	b. Reinforcing Steel Bar, Grade 60 (with 5% wastage)	126,596.38	kg.	40.00	5,063,855.16
Sub-total for E				P	5,261,345.51
F.	Direct Cost (C + E)				6,178,685.10
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		617,868.51
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		494,294.81
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		364,542.42
J.	Total Unit Cost				63.49

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 405(1)b2 Structural Concrete, Class "A"
 Unit of Measurement: cu.m.
 Output per hour: 40.00
 Quantity: 865.78

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.71	611.92	1,655.59
	b. Leadman	4	2.71	561.36	6,075.18
	c. Skilled Labor	16	2.71	443.20	19,185.68
	d. Unskilled Labor	32	2.71	342.24	29,630.45
	Installation & Removal of Formworks/Falsework				
	a. Const. Foreman	1	54.11	611.92	33,111.76
	b. Leadman	4	54.11	561.36	121,503.57
	c. Skilled Labor	16	54.11	443.20	383,713.70
	d. Unskilled Labor	32	54.11	342.24	592,609.09
	use quadruple gang of labor and equipment				
Sub-total for A				P	1,187,485.02
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	8	2.71	10,544.00	228,219.61
	b. Concrete Vibrator	8	2.71	730.00	15,800.49
	c. Batching Plant (30 cu.m.)	4	1.35	14,076.00	76,167.00
	d. Payloader (1.50 cu.m.), LX80-2C	4	1.35	13,864.00	75,019.84
	e. Water Truck (1000 gal.)	4	0.68	19,600.00	53,029.03
	f. Crane w/ Bucket	4	1.35	20,848.00	112,811.13
Sub-total for B				P	561,047.08
C.	Total (A+B)				1,748,532.10
D.	Output/day	320.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber	86,578.00	bd.ft.	37.00	3,203,386.00
	b. Plywood (1/2" x 4' x 8')	1,298.67	pc.	750.00	974,002.50
	c. Assorted CWN (1 kg./100 bd.ft. of Lumber)	865.78	kg.	50.00	43,289.00
	d. Cement	9,090.69	bag	270.00	2,454,486.30
	e. Sand	432.89	cu.m.	1,202.75	520,658.45
	f. Gravel	865.78	cu.m.	1,202.75	1,041,316.90
	g. Curing Compound	865.78	lit.	35.00	30,302.30
Sub-total for E				P	8,267,441.44
F.	Direct Cost (C + E)				10,015,973.54
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,001,597.35
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		801,277.88
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		590,942.44
J.	Total Unit Cost				14,333.65

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 406(1)a4 Prestressed Concrete AASHTO Girder (Type IV-B)

Unit of Measurement: ln.m.

Output per hour: 105.00

Quantity: 366.00

30.50 m./span

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	36.60	611.92	22,396.27
	b. Leadman	3	36.60	443.20	48,663.36
	c. Skilled Labor	24	36.60	443.20	389,306.88
	d. Unskilled Labor	18	36.60	342.24	225,467.71
	use triple gang of labor and equipment				
Sub-total for A				P	685,834.22
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane w/ Bucket (45 T)	3	15.25	20,848.00	953,796.00
	b. Stressing (Jack) Machine	3	1.31	80,000.00	313,714.29
	c. Bar Cutter	3	4.79	1,758.00	25,277.53
	d. Bar Bender	3	4.79	2,812.00	40,432.54
	e. Cutting Outfit	3	0.28	363.60	304.18
	f. Concrete Vibrator	9	5.23	730.00	34,351.71
	g. Plate Compactor	3	1.53	984.00	4,501.80
Sub-total for B				P	1,372,378.05
C.	Total (A+B)				2,058,212.27
D.	Output/day	840.00	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Prestressed Concrete AASHTO Girder Type IVB	366.00	ln.m.	24,000.00	8,784,000.00
Sub-total for E				P	8,784,000.00
F.	Direct Cost (C + E)				10,842,212.27
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,084,221.23
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		867,376.98
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		639,690.52
J.	Total Unit Cost				36,703.55

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 407(8) Lean Concrete
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 24.13

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.15	611.92	1,318.36
	b. Skilled Labor	1	2.15	443.20	954.86
	c. Unskilled Labor	2	2.15	342.24	1,474.69
Sub-total for A				P	3,747.91
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	2.15	1,376.00	2,964.54
	b. Concrete Vibrator	1	2.15	730.00	1,572.76
	c. Water Truck	1	0.22	19,600.00	4,222.75
Sub-total for B				P	8,760.05
C.	Total (A+B)				12,507.96
D.	Output/day	11.20	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	229.24	bag	270.00	61,893.45
	b. Sand	12.07	cu.m.	1,202.75	14,511.18
	c. Gravel	24.13	cu.m.	1,202.75	29,022.36
Sub-total for E				P	105,426.99
F.	Direct Cost (C + E)				117,934.94
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		11,793.49
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		9,434.80
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		6,958.16
J.	Total Unit Cost				6,055.59

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 412 Elastomeric Bearing Pad
 Unit of Measurement: each
 Output per hour: 1.00
 Quantity: 8.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.16	611.92	97.91
	b. Unskilled Labor	2	0.16	342.24	109.52
Sub-total for A				P	207.42
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Wood/Steel Ladder	1	1.00	800.00	800.00
Sub-total for B				P	800.00
C.	Total (A+B)				1,007.42
D.	Output/day	8.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Elastomeric Bearing Pad	8.00	each	16,150.00	129,200.00
	Miscellaneous 10% of Labor				20.74
Sub-total for E				P	129,220.74
F.	Direct Cost (C + E)				130,228.17
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		13,022.82
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		10,418.25
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		7,683.46
J.	Total Unit Cost				20,169.09

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 414 Forms and Falsework
 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	55.00	611.92	33,655.60
	b. Skilled Labor	6	55.00	443.20	146,256.00
	c. Unskilled Labor	6	55.00	342.24	112,939.20
Sub-total for A				P	292,850.80
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cutting Outfit	1	40.00	363.60	14,544.00
	Minor Tools 10% of Labor				29,285.08
Sub-total for B				P	43,829.08
C.	Total (A+B)				336,679.88
D.	Output/day	-			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. 63 mm. dia. G.I. Pipes	2,260.00	pc.	1,885.00	4,260,100.00
	b. 63 mm. dia. C-Clamps	4,600.00	pc.	54.00	248,400.00
	c. #16 G.I. Tie Wire	70.00	kg.	78.00	5,460.00
	d. Oxy/Acetylene	8.00	set	2,500.00	20,000.00
Sub-total for E				P	4,533,960.00
F.	Direct Cost (C + E)				4,870,639.88
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		487,063.99
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		389,651.19
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		287,367.75
J.	Total Unit Cost				6,034,722.81

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 505(5) Grouted Riprap, Class A
 Unit of Measurement: cu.m.
 Output per hour: 3.75
 Quantity: 1,051.25

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	35.04	611.92	21,442.70
	b. Leadman	3	35.04	561.36	59,012.97
	c. Skilled Labor	6	35.04	443.20	93,182.80
	d. Unskilled Labor	24	35.04	342.24	287,823.84
	use triple gang of labor and equipment				
Sub-total for A				P	461,462.31
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	3	35.04	1,376.00	144,652.00
	b. Water Truck/Pump (16000 L)	3	1.75	19,600.00	103,022.50
	Minor Tools 5% of Labor				23,073.12
Sub-total for B				P	270,747.62
C.	Total (A+B)				732,209.92
D.	Output/day	30.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	3,153.75	bag	270.00	851,512.50
	b. Sand	262.81	cu.m.	1,202.75	316,097.73
	c. Gravel	15.77	cu.m.	1,202.75	18,965.86
	d. Weep Holes (PVC)	315.38	m.	101.67	32,063.13
	e. Filter Cloth	15.77	sq.m.	160.00	2,523.00
	f. Boulders (15 - 25 kg.)	1,103.81	cu.m.	1,401.75	1,547,269.17
	Miscellaneous 1% of Materials Cost				27,684.31
Sub-total for E				P	2,796,115.71
F.	Direct Cost (C + E)				3,528,325.63
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		352,832.56
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		282,266.05
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		208,171.21
J.	Total Unit Cost				4,158.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 508(1) Handlaid Rock Embankment
 Unit of Measurement: cu.m.
 Output per hour: 6.25
 Quantity: 1,106.04

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	22.12	611.92	13,536.16
	b. Leadman	2	22.12	561.36	24,835.46
	c. Skilled Labor	4	22.12	443.20	39,215.75
	d. Unskilled Labor	16	22.12	342.24	121,129.96
	use double gang of labor and equipment				
Sub-total for A				P	198,717.34
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor Cost				19,871.73
Sub-total for B				P	19,871.73
C.	Total (A+B)				218,589.07
D.	Output/day	50.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Boulders	1,161.34	bag	1,401.75	1,627,911.15
Sub-total for E				P	1,627,911.15
F.	Direct Cost (C + E)				1,846,500.22
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		184,650.02
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		147,720.02
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		108,943.51
J.	Total Unit Cost				2,068.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 103(1)a Structure Excavation
 Unit of Measurement: cu.m.
 Output per hour: 20.00
 Quantity: 118.20

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.74	611.92	452.06
	b. Unskilled Labor	3	0.74	342.24	758.49
Sub-total for A				P	1,210.55
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	0.74	11,360.00	16,784.40
	b. Backhoe (0.80 cu.m.)	1	0.74	12,296.00	9,083.67
	Minor Tools 10% of Labor				121.05
Sub-total for B				P	25,989.12
C.	Total (A+B)				27,199.67
D.	Output/day	160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				27,199.67
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,719.97
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,175.97
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,604.78
J.	Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 405(1)a2 Structural Concrete, Class "A"
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 83.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.41	611.92	4,534.76
	b. Skilled Labor	4	7.41	443.20	13,137.71
	b. Unskilled Labor	8	7.41	342.24	20,289.94
	Installation/Removal of Formworks				
	a. Skilled Labor	4	7.41	443.20	13,137.71
	b. Unskilled Labor	8	7.41	342.24	20,289.94
Sub-total for A				P	71,390.08
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	7.41	1,376.00	10,197.14
	b. Concrete Vibrator	1	7.41	730.00	5,409.82
	c. Water Truck/Pump (16000 L)	1	0.74	19,600.00	14,525.00
	Minor Tools 10% of Labor				7,139.01
Sub-total for B				P	37,270.97
C.	Total (A+B)				108,661.05
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good	5,810.00	bd.ft.	37.00	214,970.00
	b. Marine Plywood (1/2" x 4' x 8')	132.80	pc.	880.00	116,864.00
	c. Assorted CWN (1 kg./100 bd.ft. of Lumber)	58.10	kg.	50.00	2,905.00
	d. Cement	788.50	bag	270.00	212,895.00
	e. Sand	41.50	cu.m.	1,202.75	49,914.13
	f. Gravel	83.00	cu.m.	1,202.75	99,828.25
Sub-total for E				P	697,376.38
F.	Direct Cost (C + E)				806,037.43
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		80,603.74
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		64,482.99
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		47,556.21
J.	Total Unit Cost				12,032.29

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 507(1) Rubble Concrete
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 171.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	15.27	611.92	9,342.71
	b. Skilled Labor	2	15.27	443.20	13,533.43
	b. Unskilled Labor	8	15.27	342.24	41,802.17
Sub-total for A					P 64,678.31
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	15.27	1,376.00	21,008.57
	b. Water Truck/Pump (16000 L)	1	0.76	19,600.00	14,962.50
	c. Backhoe (Wheel Type 0.28 cu.m.)	1	1.53	19,600.00	29,925.00
	Minor Tools 10% of Labor				6,467.83
Sub-total for B					P 72,363.90
C.	Total (A+B)				137,042.21
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	718.20	bag	270.00	48,478.50
	b. Sand	44.89	cu.m.	1,202.75	13,497.11
	c. Gravel Fill	3.42	cu.m.	1,202.75	4,113.41
	d. Weep Holes (PVC)	51.30	m.	101.67	5,215.50
	e. Filter Cloth	2.57	sq.m.	160.00	410.40
	f. Boulders	107.73	cu.m.	1,401.75	151,010.53
	g. Gravel	89.78	cu.m.	1,202.75	107,976.88
Sub-total for E					P 330,702.32
F.	Direct Cost (C + E)				467,744.53
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		46,774.45
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		37,419.56
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		27,596.93
J.	Total Unit Cost				3,389.10

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

For Government Field Office

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.00	611.92	4,895.36
	b. Mason	3	8.00	443.20	10,636.80
	c. Carpenter	3	8.00	443.20	10,636.80
	d. Laborer	6	8.00	342.24	16,427.52
Sub-total for A				P	42,596.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.00		-
	b. Water Truck	1	1.00		-
	Minor Tools 10% of Labor				4,259.65
Sub-total for B				P	4,259.65
C.	Total (A+B)				46,856.13
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	I. Earthworks (Excavation, Embankment, Bedding)				
	a. Gravel Bedding	3.50	cu.m.	1,202.75	4,209.63
	b. Selected Fill	10.00	cu.m.	448.70	4,487.00
	c. Soil Poisoning	2.50	L	1,900.00	4,750.00
	II. Concrete Works (Footing, Columns, Beams & Slab on Grade)				
	a. Portland Cement	90.00	bag	270.00	24,300.00
	b. Crushed Gravel	21.00	cu.m.	1,202.75	25,257.75
	c. Washed Sand	18.00	cu.m.	1,202.75	21,649.50
	III. Reinforcing Bars(Footing Columns, Beams, & Slabs on Grade)				
	a. Deformed Round Bar, Grade 40	435.00	kg.	38.00	16,530.00
	b. No. 16 GI Tie Wire	20.00	kg.	78.00	1,560.00
	IV. Formworks (Columns & Beams)				
	a. Coco Lumber	400.00	bd.ft.	15.00	6,000.00
	b. Ordinary Plywood, 1/4"x4'x8'	18.00	pc.	385.00	6,930.00
	c. CWN, Assorted	5.00	kg.	50.00	250.00
	V. Masonry Works (masonry walls & plastering)				
	a. CHB 6" thk	650.00	pc.	16.00	10,400.00
	b. Portland Cement	45.00	bag	270.00	12,150.00
	c. Washed Sand	8.00	cu.m.	1,202.75	9,622.00
	d. 10mm dia. X 6m RSB	65.00	kg.	38.00	2,470.00
	e. No. 16 GI Tie Wire	2.50	kg.	78.00	195.00
	VI. Doors and Windows				
	a. D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90mx2.1m	2.00	set	1,765.26	3,530.52
	b. W-1, Jalousie window, 1.4m x 1.2m	2.00	set	924.00	1,848.00
	c. W-2, Jalousie window, 2.8m x 1.2m	2.00	set	1,848.00	3,696.00
Sub-total for E				P	159,835.40
Sub-total for E (I + II + III)				P	308,736.33
F.	Direct Cost (C + E)				355,592.45
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		35,559.25
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		28,447.40
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		20,979.95

J.	Total Unit Cost	440,579.05
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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

For Government Field Office

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
Sub-total for A				P -
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				-
Sub-total for B				P -
C. Total (A+B)				-
D. Output/day	-	L.S./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
VII. Steel Works				
a. 65 x 65 x 6mm. L	350.00	kg.	48.00	16,800.00
b. 50 x 50 x 6mm. L	250.00	kg.	48.00	12,000.00
c. 50 x 50 x 4mm. L	100.00	kg.	48.00	4,800.00
d. Purlins C- 150 x 50 x 3mm.	18.00	kg.	48.00	864.00
e. 16mm dia. Cross bracing	35.00	kg.	38.00	1,330.00
f. 16mm dia. Turn buckle	20.00	pc.	118.00	2,360.00
g. 12mm thk base plate	25.00	kg.	47.00	1,175.00
h. 10mm thk batten plate	15.00	kg	47.00	705.00
i. 10mm dia. Sag rod	10.00	kg.	38.00	380.00
j. 20mm dia. X 350 mm anchor bolts	10.00	pc.	36.00	360.00
k. Welding Rod	15.00	kg.	149.00	2,235.00
l. Primer, Zinc Cromate	5.00	gal.	531.00	2,655.00
VIII Roofing Works				
a. Pre-painted GI Roofing Sheet long span	55.00	sq.m.	420.00	23,100.00
b. Pre-painted ridge roll ga 24, 0.60m width	10.00	ln.m.	189.00	1,890.00
c. Pre-painted flashing, ga. 24	2.00	ln.m.	189.00	378.00
d. Teckscrew 1 1/2"	1,000.00	pc.	1.25	1,250.00
e. Roof Sealant	2.00	L	242.84	485.68
IX. Carpentry Works				
a. Rough Lumber, sun dried tanguile	500.00	bd.ft.	37.00	18,500.00
b. Plywood, ordinary 1/4" x 4' x 8'	30.00	pc.	350.00	10,500.00
c. Finishing Nails	5.00	kg.	90.00	450.00
d. Common Wire Nails	10.00	kg.	50.00	500.00
e. Wood Preservative Brown	5.00	L	398.00	1,990.00
Sub-total for E				P 104,707.68
F. Direct Cost (C + E)				
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		

J.	Total Unit Cost	
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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

For Government Field Office

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	-
C.	Total (A+B)				-
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	X. Electrical Works				
	a. 2 x 40w Flourescent lighting fixtures	5.00	set	1,030.00	5,150.00
	b. Porcelain Ceiling Outlet w/ female socket	2.00	pc	50.00	100.00
	c. Duplex Convenience outlet	3.00	pc	170.00	510.00
	d. two gang switch	3.00	pc	132.00	396.00
	e. 3.5mm ² thw	3.00	roll	3,600.00	10,800.00
	f. 8.00mm ² thw	25.00	m	69.33	1,733.25
	g. 15mm dia. PVC pipe	20.00	pc	73.00	1,460.00
	h. 15mm dia. PVC Coupling	25.00	pc	16.00	400.00
	i. 15mm dia. PVC Elbow	25.00	pc	26.00	650.00
	j. 15mm dia. PVC Clamp	55.00	pc	8.00	440.00
	k. 20mm dia. RSC Pipe	4.00	pc	240.00	960.00
	l. 20mm dia. RSC Coupling	3.00	pc	36.00	108.00
	m. 20mm dia. RSC elbow	3.00	pc	30.00	90.00
	n. 20mm dia. RSC Clamp	10.00	pc	18.00	180.00
	o. 20mm dia. Service entrance cap	2.00	pc	100.00	200.00
	p. wire holder	2.00	pc	50.00	100.00
	q. utility box	7.00	pc	32.00	224.00
	r. octagonal box	8.00	pc	34.00	272.00
	s. electrical tape (big)	7.00	pc	31.00	217.00
	t. panel board (side main w/ braches)	2.00	set	1,627.00	3,254.00
	XI. Plumbing Works				
	a. Water Closet (include. Fitting & Accessories)	1.00	set	7,353.00	7,353.00
	b. Lavatory (include fitting & Accessories)	1.00	set	6,615.00	6,615.00
	c. 1/2" GI Pipe S-40	2.00	pc	321.00	642.00
	d. 1/2" Water Faucet	2.00	pc	166.00	332.00
	e. 1/2" Assorted Connector	8.00	pc	19.00	152.00
	f. 4" PVC series 1000	1.00	pc	640.00	640.00
	g. 2" PVC series 1000	1.00	pc	305.00	305.00
	h. 4" PVC assorted Connector	6.00	pc	77.00	462.00
	i. 2" PVC assorted Connector	8.00	pc	56.00	448.00
Sub-total for E				P	44,193.25
F.	Direct Cost (C + E)				
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		

J.	Total Unit Cost	
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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
Sub-total for A				P -
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
Sub-total for B				P -
C. Total (A+B)				-
D. Output/day	-	L.S./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Office Equipment/Facilities & Supplies				
Electric Desk Fan	1.00	unit	1,370.00	1,370.00
Folding Beds, Good Quality	2.00	each	2,700.00	5,400.00
pillows w/ pillow cases, fitted sheets and blanket	2.00	each	5,000.00	10,000.00
Double burner gas stove (Gasul)	1.00	unit	3,700.00	3,700.00
10 cups Rice Cooker	1.00	unit	2,500.00	2,500.00
Aluminum Cookware	1.00	set	3,500.00	3,500.00
Plate, Glass, Spoon and fork	1.00	dozen	2,000.00	2,000.00
6 seater dining table	1.00	each	2,800.00	2,800.00
Monoblock w/ Backrest chair	2.00	dozen	2,500.00	5,000.00
Plastic Pail & Basin	2.00	pc.	250.00	500.00
White Board	1.00	Unit	3,000.00	3,000.00
Bond Paper (Long)	20.00	ream	300.00	6,000.00
Bond Paper (Short)	20.00	ream	270.00	5,400.00
Yellow Pad	6.00	pad	35.00	210.00
White Board Marker	10.00	pc.	75.00	750.00
Sign Pen (assorted color)	2.00	dozen	580.00	1,160.00
Ballpen (assorted color)	4.00	box	180.00	720.00
Mechanical Pencil	6.00	unit	350.00	2,100.00
Pencil Lead, No. 5	4.00	box	145.00	580.00
Puncher	1.00	unit	320.00	320.00
Staple Pad w/ wire	2.00	unit	275.00	550.00
Cutter Blade	2.00	box	240.00	480.00
Scotch Tape	10.00	roll	45.00	450.00
Brown Envelop	7.00	dozen	125.00	875.00
Folder, Long	7.00	dozen	85.00	595.00
Folder, Short	7.00	dozen	70.00	490.00
Data File Folder	12.00	pc.	85.00	1,020.00
Digital Camera	2.00	set	10,200.00	20,400.00
Cellphone	4.00	set	15,000.00	60,000.00
Desktop Computer	1.00	set	60,000.00	60,000.00
Lighting/Water Fixtures				
a. Electrical Bill	12.00	mos.	3,000.00	36,000.00
b. Water Bill	12.00	mos.	1,500.00	18,000.00
c. LPG (11 kg)	12.00	mos.	1,000.00	12,000.00
Sub-total for E				P 267,870.00
F. Direct Cost (C + E)				267,870.00
G. Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-

H.	Contractor's Profit (CP)	8% per D.O. 197, s. 2016	21,429.60
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016	14,464.98
J.	Total Unit Cost		303,764.58

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: B.5 Project Billboard/Signboard

Unit of Measurement: each

Output per hour:

Quantity: 2.00

Per D.O. 141, s. 2016

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.00	611.92	1,223.84
	b. Skilled Labor	1	2.00	443.20	886.40
	c. Unskilled Labor	2	2.00	342.24	1,368.96
Sub-total for A				P	3,479.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	-
C.	Total (A+B)				3,479.20
D.	Output/day	-	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ordinary Plywood 1/2" thk. x 4' x 8'	2.00	pc.	690.00	1,380.00
	b. Tarpaulin (4' x 8')	2.00	pc.	800.00	1,600.00
	c. Assorted Lumber	100.00	bd.ft.	37.00	3,700.00
	d. Assorted CW Nails	2.00	kg.	50.00	100.00
Sub-total for E				P	6,780.00
F.	Direct Cost (C + E)				10,259.20
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,025.92
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		820.74
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		605.29
J.	Total Unit Cost				6,355.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

Unit of Measurement: month

Output per hour:

Quantity: 12.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practioner	1	360.00	611.92	220,291.20
	b. First Aider	1	180.00	443.20	79,776.00
Sub-total for A					P 300,067.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Warning Signs and Barricades				60,000.00
Sub-total for B					P 60,000.00
C.	Total (A+B)				360,067.20
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Rubber Boots (Long w/ steel toe, Black)	24.00	pair	400.00	9,600.00
	b. Working Gloves (Maong Material)	24.00	pair	15.00	360.00
	c. Rain Coats (Reinforced, Hip Lenth)	18.00	pc.	100.00	1,800.00
	d. Safety Hats	24.00	pc,	600.00	14,400.00
Sub-total for E					P 26,160.00
F.	Direct Cost (C + E)				386,227.20
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		30,898.18
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		20,856.27
J.	Total Unit Cost				36,498.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: A.1.2(5) Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer
 Unit of Measurement: month

Output per hour: 12.00
 Quantity: 12.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	360	422.32	152,035.20
Sub-total for A				P	152,035.20
Name and Capacity		No. of Equipment	No. of Months	Monthly Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	-
C.	Total (A+B)				152,035.20
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Diesel	10,800.00	L	31.00	334,800.00
	b. Spare Parts	1.00	L.S.	50,000.00	50,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	50,220.00	50,220.00
	d. Miscellaneous	1.00	L.S.	75,000.00	75,000.00
Sub-total for E				P	510,020.00
F.	Direct Cost (C + E)				662,055.20
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit (CP)		per D.O. 197, s. 2016		-
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		33,102.76
J.	Total Unit Cost				57,929.83

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Low Bed Trailer	1	5.00	34,043.00	170,215.00
	b. Water Truck	1	5.00	19,600.00	98,000.00
	c. Backhoe	2	5.00	12,296.00	122,960.00
	d. Bulldozer	1	5.00	27,032.00	135,160.00
	e. Dumptruck	4	5.00	11,360.00	227,200.00
	f. Payloader	1	2.00	13,864.00	27,728.00
Sub-total for B				P	781,263.00
C.	Total (A+B)				781,263.00
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				781,263.00
G.	Overhead, Contingencies and Miscellaneous per D.O. 197, s. 2016				-
H.	Contractor's Profit (CP) per D.O. 197, s. 2016				-
I.	Value Added Tax (VAT) 5% per D.O. 197, s. 2016				39,063.15
J.	Total Unit Cost				820,326.15

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: B.4(1) Construction Survey & Staking
 Unit of Measurement: km.
 Output per hour: 0.04
 Quantity: 0.120

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Field Works				
	a. Geodetic Engineer	1	0.38	833.31	312.49
	b. Skilled Laborer	3	0.38	443.20	498.60
	c. Laborer	3	0.38	342.24	385.02
	For Office Works				
	a. Geodetic Engineer	1	1.13	833.31	937.47
	b. Skilled Laborer	2	1.13	443.20	997.20
Sub-total for A				P	3,130.79
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories	1	0.38	800.00	300.00
	Minor Tools 10% of Labor				313.08
Sub-total for B				P	613.08
C.	Total (A+B)				3,743.86
D.	Output/day	0.32	km./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Standard Stake Plan (800 mm x 910 mm)	48.00	pc	400.00	19,200.00
	b. Blue Printing	240.00	pc	15.00	3,600.00
	Miscellaneous 5% of Materials Cost				1,140.00
Sub-total for E				P	23,940.00
F.	Direct Cost (C + E)				27,683.86
G.	Overhead, Contingencies and Miscellaneous		12% per D.O. 197, s. 2016		3,322.06
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,214.71
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,661.03
J.	Total Unit Cost				290,680.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 404(1a) Reinforcing Steel Bar, Grade 40
 Unit of Measurement: kg.
 Output per hour: 180.00
 Quantity: 987.72

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.69	611.92	419.73
	b. Skilled Labor	2	0.69	443.20	608.00
	c. Unskilled Labor	8	0.69	342.24	1,877.98
Sub-total for A				P	2,905.71
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	0.34	1,758.00	602.92
	b. Bar Bender	1	0.34	2,812.00	964.40
	c. Cargo Truck (9-10 mt)	1	0.10	9,696.00	997.60
Sub-total for B				P	2,564.92
C.	Total (A+B)				5,470.62
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	20.74	kg.	78.00	1,617.89
	b. Reinforcing Steel Bar, Grade 40 (w/ 5% Wastage)	1,037.11	kg.	38.00	39,410.03
Sub-total for E				P	41,027.91
F.	Direct Cost (C + E)				46,498.54
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		4,649.85
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,719.88
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,743.41
J.	Total Unit Cost				58.33

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 404(1b) Reinforcing Steel Bar, Grade 60
 Unit of Measurement: kg.
 Output per hour: 180.00
 Quantity: 2,584.76

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.79	611.92	1,098.38
	b. Skilled Labor	2	1.79	443.20	1,591.06
	c. Unskilled Labor	8	1.79	342.24	4,914.49
Sub-total for A				P	7,603.93
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	0.90	1,758.00	1,577.78
	b. Bar Bender	1	0.90	2,812.00	2,523.73
	c. Cargo Truck (9-10 mt)	1	0.27	9,696.00	2,610.61
Sub-total for B				P	6,712.12
C.	Total (A+B)				14,316.05
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	54.28	kg.	78.00	4,233.84
	b. Reinforcing Steel Bar, Grade 60 (w/ 5% Wastage)	2,714.00	kg.	40.00	108,559.92
Sub-total for E				P	112,793.76
F.	Direct Cost (C + E)				127,109.81
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		12,710.98
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		10,168.78
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		7,499.48
J.	Total Unit Cost				60.93

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 505(5) Grouted Riprap, Class A

Unit of Measurement: cu.m.

Output per hour: 3.75

Quantity: 223.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.43	611.92	4,548.61
	b. Leadman	3	7.43	561.36	12,518.33
	c. Skilled Labor	6	7.43	443.20	19,766.72
	d. Unskilled Labor	24	7.43	342.24	61,055.62
	use triple gang of labor and equipment				
Sub-total for A				P	97,889.27
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	3	7.43	1,376.00	30,684.80
	b. Water Truck/Pump (16000 L)	3	0.37	19,600.00	21,854.00
	Minor Tools 5% of Labor				4,894.46
Sub-total for B				P	57,433.26
C.	Total (A+B)				155,322.53
D.	Output/day	30.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	669.00	bag	270.00	180,630.00
	b. Sand	55.75	cu.m.	1,202.75	67,053.31
	c. Gravel	3.35	cu.m.	1,202.75	4,023.20
	d. Weep Holes (PVC)	66.90	m.	101.67	6,801.50
	e. Filter Cloth	3.35	sq.m.	160.00	535.20
	f. Boulders (15 - 25 kg.)	234.15	cu.m.	1,401.75	328,219.76
	Miscellaneous 1% of Materials Cost				5,872.63
Sub-total for E				P	593,135.60
F.	Direct Cost (C + E)				748,458.14
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		74,845.81
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		59,876.65
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		44,159.03
J.	Total Unit Cost				4,158.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 400(6) Structural Steel Sheet Piles, Furnished
 Unit of Measurement: In.m.
 Output per hour: 48.00
 Quantity: 1,512.00

6.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.94	611.92	2,409.44
	b. Skilled Labor	2	3.94	443.20	3,490.20
	c. Unskilled Labor	2	3.94	342.24	2,695.14
Sub-total for A				P	8,594.78
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	3.94	20,848.00	82,089.00
Sub-total for B				P	82,089.00
C.	Total (A+B)				90,683.78
D.	Output/day	384.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Steel Sheet Piles KSP II (delivered at site)	72,576.00	kg.	50.00	3,628,800.00
Sub-total for E				P	3,628,800.00
F.	Direct Cost (C + E)				3,719,483.78
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	371,948.38
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	297,558.70
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	219,449.54
J.	Total Unit Cost				3,047.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

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

Unit of Measurement: In.m.

Output per hour: 10.00

Quantity: 1,512.00

6.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	18.90	611.92	11,565.29
	b. Skilled Labor	6	18.90	443.20	50,258.88
	c. Unskilled Labor	6	18.90	342.24	38,810.02
Sub-total for A				P	100,634.18
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	18.90	20,848.00	394,027.20
	b. Vibro Hammer	1	18.90	16,984.00	320,997.60
	c. Gen. Set (876-1000 KVA)	1	18.90	10,373.36	196,056.50
	d. Welding Machine	1	18.90	2,968.00	56,095.20
	e. Cutting Outfit	1	9.45	363.60	3,436.02
Sub-total for B				P	970,612.52
C.	Total (A+B)				1,071,246.71
D.	Output/day	80.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Welding Rod (1 kg./2000 kg. of Steel Sheet Pile)	36.29	kg.	150.00	5,443.20
	b. Oxy/Acetylene (1 set/5000 kg. of Steel Sheet Pile)	14.52	set	2,500.00	36,288.00
Sub-total for E				P	41,731.20
F.	Direct Cost (C + E)				1,112,977.91
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	111,297.79
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	89,038.23
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	65,665.70
J.	Total Unit Cost				912.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Item No./Description: 104(1)b Embankment, Common Borrow
 Unit of Measurement: cu.m.
 Output per hour: 50.00
 Quantity: 2,442.10

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	6.11	611.92	3,735.92
	b. Unskilled Labor	2	6.11	342.24	4,178.92
Sub-total for A				P	7,914.85
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G170A	1	6.11	17,384.00	106,133.67
	b. Vibratory Roller (10 mt), SD100C	1	6.11	14,768.00	90,162.33
	c. Water Truck/Pump (16000 L)	1	1.53	19,600.00	29,915.73
Sub-total for B				P	226,211.72
C.	Total (A+B)				234,126.57
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Common Borrow (with 25% Shrinkage Factor)	3,052.63	cu.m.	448.70	1,369,712.84
Sub-total for E				P	1,369,712.84
F.	Direct Cost (C + E)				1,603,839.41
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	160,383.94
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	128,307.15
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	94,626.52
J.	Total Unit Cost				813.71

Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

Date : December 8, 2016

NAME OF PROJECT : Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City	Appropriation	:	P	102,000,000.00
	Source of Funds	:		CY-2017 GAA
LOCATION: Zamboanga City	Issued Obligated Authority	:		
	Released	:		
PROJECT CATEGORY : NATIONAL ROAD	Cal. Days to Complete	:	360	Calendar Days
	Desirable Starting Date	:		upon approval
	Mode of Implementation	:		by contract
PROJECT DESCRIPTION : Scope of Work : Bridge Road Width : 6.70 m. Roadbed Width : 12.00 m. Subbase Course : 0.30 m. thk. Surface Course : 0.15 m. thk.	Limits:		Length:	
	Beg. of Proj.	1959+840.00		12.58 m.
	Abutment A	1959+852.58		92.34 m.
	Abutment B	1959+944.92		15.08 m.
	End of Proj.	1959+960.00		
	Approaches Net Length:			27.66 In.m.
Bridge Length:			92.34 In.m.	

MINIMUM EQUIPMENT REQUIREMENT :				TECHNICAL PERSONNEL REQUIRED :	
Description	No.	Description	No.	Description	No.
Dump Truck	4	Water Pump	1	Project Engineer	1
Transti Mixer	4	Concrete Screeder	1	Materials Engineer	1
Bulldozer	2	Concrete Vibrator	3	Geometric Surveyor	1
Backhoe	3	Concrete Cutter	2	Foreman	1
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1
Road Roller	2	Bar Bender	1	Mason	12
Payloader	4	One Bagger Mixer	2	Carpenter	8
Water Truck	2	Batching Plant	1	Laborers (Skilled)	20
Water Tank	2	Plate Compactor	1	Laborers (Unskilled)	30
Kneading Machine	1	Cargo Truck	1	Safety Practitioner	1
Applicator Machine	1	Diesel Hammer	1		
Truck Mounted Crane	1	Drop Hammer	1		
Gen. Set (876 - 1000 KVA)	1	Jack Hammer	2		
Gen. Set (1401 - 1500 KW)	1	Service Crane	1		
Welding Machine	1	Air Compressor	1		
Stressing (Jack) Machine	1	Crane with Bucket	1		

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART A - FACILITIES FOR THE ENGINEER						
A.1.1(3)	Construction of Field Office for the Engineer	0.45	L.S.	1.00	355,592.45	355,592.45
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.34	L.S.	1.00	267,870.00	267,870.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.83	month	12.00	662,055.20	55,171.27
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey & Staking	0.03	km.	0.12	27,683.86	230,698.86
B.5	Project Billboard/Signboard	0.01	each	2.00	10,259.20	5,129.60
B.7	Occupation Safety and Health Program	0.48	month	12.00	386,227.20	32,185.60
B.9	Mobilization & Demobilization	0.98	L.S.	1.00	781,263.00	781,263.00

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART C - EARTHWORKS						
104(1)a	Embankment, from Excavation	0.04	cu.m.	155.00	35,737.46	230.56
104(1)b	Embankment, Common Borrow	0.06	cu.m.	78.00	51,226.19	656.75
105	Subgrade Preparation	0.01	sq.m.	371.00	5,928.02	15.98
PART D - SUBBASE AND BASE COURSE						
200	Aggregate Subbase Course	0.19	cu.m.	123.00	150,660.67	1,224.88
PART E - SURFACE COURSES						
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	0.29	sq.m.	153.00	235,098.02	1,536.59
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	0.09	sq.m.	83.00	70,236.47	846.22
PART F - BRIDGE CONSTRUCTION						
101(3)a6	Removal of Structures/Obstructions	0.02	sq.m.	64.00	17,187.71	268.56
101(3)b5	Removal of Structures/Obstructions	0.04	sq.m.	205.09	28,833.54	140.59
101(4)	Removal of Structures/Obstructions	0.06	ln.m.	183.00	49,975.03	273.09
101(6)a	Removal of Structures/Obstructions	0.03	cu.m.	16.41	23,837.17	1,452.60
101(6)b	Removal of Structures/Obstructions	0.35	cu.m.	798.69	275,356.36	344.76
103(2)a	Bridge Excavation Above Ordinary Water Level	0.18	cu.m.	630.00	145,410.14	230.81
103(2)b	Bridge Excavation Below Ordinary Water Level	0.83	cu.m.	708.00	657,695.72	928.95
400(4)a	Precast Concrete Piles, Furnished	11.15	ln.m.	2,240.00	8,890,698.40	3,969.06
400(6)	Structural Steel Sheet Piles, Furnished	6.15	ln.m.	1,992.00	4,900,272.28	2,459.98
400(12)	Structural Steel Sheet Piles, Driven	1.23	ln.m.	1,328.00	977,536.15	736.10
400(14)	Precast Concrete Piles, Driven	5.49	ln.m.	2,128.00	4,380,114.42	2,058.32
400(16)	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	0.43	ln.m.	80.00	343,058.00	4,288.23
401(2)	Concrete Railing	0.93	ln.m.	183.00	739,655.91	4,041.84
402	Timber Structures (Craneway)	6.54	ln.m.	182.00	5,215,493.80	28,656.56
403(1)	Structural Steel, Furnished, Fabricated and Erected	4.38	kg.	18,212.95	3,492,155.51	191.74
404a	Reinforcing Steel, Grade 40	0.44	kg.	7,208.16	347,649.36	48.23
404b	Reinforcing Steel, Grade 60	7.75	kg.	120,567.98	6,178,685.10	51.25
405(1)b2	Structural Concrete, Class "A"	12.56	cu.m.	865.78	10,015,973.54	11,568.73
406(1)a4	Prestressed Concrete AASHTO Girder (Type IV-B)	13.60	ln.m.	366.00	10,842,212.27	29,623.53
407(8)	Lean Concrete	0.15	cu.m.	24.13	117,934.94	4,887.48
412	Elastomeric Bearing Pad	0.16	each	8.00	130,228.17	16,278.52
414	Forms and Falsework	6.11	L.S.	1.00	4,870,639.88	4,870,639.88
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
505(5)	Grouted Riprap, Class A	4.43	cu.m.	1,051.25	3,528,325.63	3,356.31
508(1)	Handlaid Rock Embankment	2.32	cu.m.	1,106.04	1,846,500.22	1,669.47
PART H - RIVER PROTECTION STRUCTURES						
103(1)a	Structure Excavation	0.03	cu.m.	118.20	27,199.67	230.12
104(1)b	Embankment, Common Borrow	2.01	cu.m.	2,442.10	1,603,839.41	656.75
404(1a)	Reinforcing Steel Bar, Grade 40	0.06	kg.	987.72	46,498.54	47.08
404(1b)	Reinforcing Steel Bar, Grade 60	0.16	kg.	2,584.76	127,109.81	49.18
405(1)a2	Structural Concrete, Class "A"	1.01	cu.m.	83.00	806,037.43	9,711.29
505(5)	Grouted Riprap, Class A	0.94	cu.m.	223.00	748,458.14	3,356.31
507(1)	Rubble Concrete	0.59	cu.m.	171.00	467,744.53	2,735.35
400(6)	Structural Steel Sheet Piles, Furnished	4.67	ln.m.	1,512.00	3,719,483.78	2,459.98
400(12)	Structural Steel Sheet Piles, Driven	1.40	ln.m.	1,512.00	1,112,977.91	736.10
TOTAL		100.00			P 79,714,616.22	

NAME OF PROJECT : Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Zamboanga City

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	5.98	6,101,610.61
A.2. Equipment Expenses	12.30	12,544,170.37
A.3. Materials	59.87	61,068,835.23
SUB-TOTAL (DIRECT COST)	78.15	P 79,714,616.22
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.61	7,761,720.08
B.2. Profit (8 % Max. of D.C.)	6.14	6,261,703.84
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	4.60	4,686,902.01
SUBTOTAL (CONTRACT COST)	96.50	P 98,424,942.15
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	3,570,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW		
4. Physical Reserved	0.00	5,057.85
TOTAL ESTIMATED PROJECT COST	100.00	P 102,000,000.00

Prepared :	Checked :
<u>ELWICK P. ACUÑA</u> Engineer II	<u>JERALD R. BARRERA</u> Engineer II
Submitted :	Recommending Approval :
<u>LEONCIO B. SOLAMILLO</u> Chief, Construction Division	<u>CAYAMOMBAO D. DIA</u> OIC - Assistant Regional Director
Approved :	
<u>JORGE U. SEBASTIAN, JR., CESO III</u> Regional Director	

APPROVED BUDGET FOR THE CONTRACT

Widening of San Ramon Bridge 2 (B01162MN) along Zamboanga City - Labuan - Limpapa Road, P00117212MN, Zamboanga City

Beg. Of Proj. - Abutment A	<u>1959+840.00</u>	to	<u>1959+852.58</u>
Abutment A - Abutment B	<u>1959+852.58</u>	to	<u>1959+944.92</u>
Abutment B - End of Proj.	<u>1,959,944.92</u>	to	<u>1959+960.00</u>

Approaches Net Length **27.66 Ln.m.**
Bridges Net Length **92.34 Ln.m.**

Contract Duration : **360 CD**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
					(6)	(7)	(8)	(9)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
								(5) x (8)	5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PART A - FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer	1.00	L.S.	355,592.45	10.00	8.00	18.00	64,006.64	20,979.95	84,986.60	440,579.05	440,579.05
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	267,870.00	-	8.00	8.00	21,429.60	14,464.98	35,894.58	303,764.58	303,764.58
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	12.00	month	662,055.20	-	-	-	-	33,102.76	33,102.76	695,157.96	57,929.83
TOTAL OF PART A				1,285,517.65				85,436.24	68,547.69	153,983.94	1,439,501.59	
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey & Staking	0.12	km.	27,683.86	10.00	8.00	18.00	4,983.10	1,633.35	6,616.44	34,300.31	285,835.89
B.5	Project Billboard/Signboard	2.00	each	10,259.20	10.00	8.00	18.00	1,846.66	605.29	2,451.95	12,711.15	6,355.57
B.7	Occupation Safety and Health Program	12.00	month	386,227.20	-	8.00	8.00	30,898.18	20,856.27	51,754.44	437,981.64	36,498.47
B.9	Mobilization & Demobilization	1.00	L.S.	781,263.00	-	-	-	-	39,063.15	39,063.15	820,326.15	820,326.15
TOTAL OF PART B				1,205,433.26				37,727.93	62,158.06	99,885.99	1,305,319.25	
PART C - EARTHWORKS												
104(1)a	Embankment, from Excavation	155.00	cu.m.	35,737.46	10.00	8.00	18.00	6,432.74	2,108.51	8,541.25	44,278.71	285.67
104(1)b	Embankment, Common Borrow	78.00	cu.m.	51,226.19	10.00	8.00	18.00	9,220.71	3,022.35	12,243.06	63,469.25	813.71
105	Subgrade Preparation	371.00	sq.m.	5,928.02	10.00	8.00	18.00	1,067.04	349.75	1,416.80	7,344.82	19.80
TOTAL OF PART C				92,891.67				16,720.50	5,480.61	22,201.11	115,092.78	
PART D - SUBBASE AND BASE COURSE												
200	Aggregate Subbase Course	123.00	cu.m.	150,660.67	10.00	8.00	18.00	27,118.92	8,888.98	36,007.90	186,668.57	1,517.63
TOTAL OF PART D				150,660.67				27,118.92	8,888.98	36,007.90	186,668.57	
PART E - SURFACE COURSES												
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	153.00	sq.m.	235,098.02	10.00	8.00	18.00	42,317.64	13,870.78	56,188.43	291,286.45	1,903.83
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	83.00	sq.m.	70,236.47	10.00	8.00	18.00	12,642.56	4,143.95	16,786.52	87,022.99	1,048.47
TOTAL OF PART E				305,334.50				54,960.21	18,014.74	72,974.94	378,309.44	
PART F - BRIDGE CONSTRUCTION												
101(3)a6	Removal of Structures/Obstructions	64.00	sq.m.	17,187.71	10.00	8.00	18.00	3,093.79	1,014.08	4,107.86	21,295.58	332.74
101(3)b5	Removal of Structures/Obstructions	205.09	sq.m.	28,833.54	10.00	8.00	18.00	5,190.04	1,701.18	6,891.22	35,724.75	174.19
101(4)	Removal of Structures/Obstructions	183.00	ln.m.	49,975.03	10.00	8.00	18.00	8,995.51	2,948.53	11,944.03	61,919.06	338.36
101(6)a	Removal of Structures/Obstructions	16.41	cu.m.	23,837.17	10.00	8.00	18.00	4,290.69	1,406.39	5,697.08	29,534.25	1,799.77
101(6)b	Removal of Structures/Obstructions	798.69	cu.m.	275,356.36	10.00	8.00	18.00	49,564.15	16,246.03	65,810.17	341,166.54	427.16
103(2)a	Bridge Excavation Above Ordinary Water Level	630.00	cu.m.	145,410.14	10.00	8.00	18.00	26,173.83	8,579.20	34,753.02	180,163.17	285.97
103(2)b	Bridge Excavation Below Ordinary Water Level	708.00	cu.m.	657,695.72	10.00	8.00	18.00	118,385.23	38,804.05	157,189.28	814,884.99	1,150.97
400(4)a	Precast Concrete Piles, Furnished	2,240.00	ln.m.	8,890,698.40	10.00	8.00	18.00	1,600,325.71	524,551.21	2,124,876.92	11,015,575.32	4,917.67
400(6)	Structural Steel Sheet Piles, Furnished	1,992.00	ln.m.	4,900,272.28	10.00	8.00	18.00	882,049.01	289,116.06	1,171,165.07	6,071,437.35	3,047.91
400(12)	Structural Steel Sheet Piles, Driven	1,328.00	ln.m.	977,536.15	10.00	8.00	18.00	175,956.51	57,674.63	233,631.14	1,211,167.29	912.02
400(14)	Precast Concrete Piles, Driven	2,128.00	ln.m.	4,380,114.42	10.00	8.00	18.00	788,420.60	258,426.75	1,046,847.35	5,426,961.76	2,550.26
400(16)	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	80.00	ln.m.	343,058.00	10.00	8.00	18.00	61,750.44	20,240.42	81,990.86	425,048.86	5,313.11
401(2)	Concrete Railing	183.00	ln.m.	739,655.91	10.00	8.00	18.00	133,138.06	43,639.70	176,777.76	916,433.68	5,007.83
402	Timber Structures (Craneway)	182.00	ln.m.	5,215,493.80	10.00	8.00	18.00	938,788.88	307,714.13	1,246,503.02	6,461,996.82	35,505.48
403(1)	Structural Steel, Furnished, Fabricated and Erected	18,212.95	kg.	3,492,155.51	10.00	8.00	18.00	628,587.99	206,037.18	834,625.17	4,326,780.68	237.57
404a	Reinforcing Steel, Grade 40	7,208.16	kg.	347,649.36	10.00	8.00	18.00	62,576.88	20,511.31	83,088.20	430,737.55	59.76
404b	Reinforcing Steel, Grade 60	120,567.98	kg.	6,178,685.10	10.00	8.00	18.00	1,112,163.32	364,542.42	1,476,705.74	7,655,390.84	63.49
405(1)b2	Structural Concrete, Class "A"	865.78	cu.m.	10,015,973.54	10.00	8.00	18.00	1,802,875.24	590,942.44	2,393,817.68	12,409,791.22	14,333.65
406(1)a4	Prestressed Concrete AASHTO Girder (Type IV-B)	366.00	ln.m.	10,842,212.27	10.00	8.00	18.00	1,951,598.21	639,690.52	2,591,288.73	13,433,501.01	36,703.55
407(8)	Lean Concrete	24.13	cu.m.	117,934.94	10.00	8.00	18.00	21,228.29	6,958.16	28,186.45	146,121.40	6,055.59
412	Elastomeric Bearing Pad	8.00	each	130,228.17	10.00	8.00	18.00	23,441.07	7,683.46	31,124.53	161,352.70	20,169.09
414	Forms and Falsework	1.00	L.S.	4,870,639.88	10.00	8.00	18.00	876,715.18	287,367.75	1,164,082.93	6,034,722.81	6,034,722.81
TOTAL OF PART F				62,640,603.41				11,275,308.61	3,695,795.60	14,971,104.22	77,611,707.63	

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
								(9)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(5) x (8)	5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES												
505(5)	Grouted Riprap, Class A	1,051.25	cu.m.	3,528,325.63	10.00	8.00	18.00	635,098.61	208,171.21	843,269.83	4,371,595.46	4,158.47
508(1)	Handlaid Rock Embankment	1,106.04	cu.m.	1,846,500.22	10.00	8.00	18.00	332,370.04	108,943.51	441,313.55	2,287,813.78	2,068.47
TOTAL OF PART G				5,374,825.85				967,468.65	317,114.73	1,284,583.38	6,659,409.23	
PART H - RIVER PROTECTION STRUCTURES												
103(1)a	Structure Excavation	118.20	cu.m.	27,199.67	10.00	8.00	18.00	4,895.94	1,604.78	6,500.72	33,700.39	285.11
104(1)b	Embankment, Common Borrow	2,442.10	cu.m.	1,603,839.41	10.00	8.00	18.00	288,691.09	94,626.52	383,317.62	1,987,157.02	813.71
404(1a)	Reinforcing Steel Bar, Grade 40	987.72	kg.	46,498.54	10.00	8.00	18.00	8,369.74	2,743.41	11,113.15	57,611.69	58.33
404(1b)	Reinforcing Steel Bar, Grade 60	2,584.76	kg.	127,109.81	10.00	8.00	18.00	22,879.77	7,499.48	30,379.24	157,489.05	60.93
405(1)a2	Structural Concrete, Class "A"	83.00	cu.m.	806,037.43	10.00	8.00	18.00	145,086.74	47,556.21	192,642.94	998,680.37	12,032.29
505(5)	Grouted Riprap, Class A	223.00	cu.m.	748,458.14	10.00	8.00	18.00	134,722.46	44,159.03	178,881.49	927,339.63	4,158.47
507(1)	Rubble Concrete	171.00	cu.m.	467,744.53	10.00	8.00	18.00	84,194.02	27,596.93	111,790.94	579,535.48	3,389.10
400(6)	Structural Steel Sheet Piles, Furnished	1,512.00	ln.m.	3,719,483.78	10.00	8.00	18.00	669,507.08	219,449.54	888,956.62	4,608,440.40	3,047.91
400(12)	Structural Steel Sheet Piles, Driven	1,512.00	ln.m.	1,112,977.91	10.00	8.00	18.00	200,336.02	65,665.70	266,001.72	1,378,979.63	912.02
TOTAL OF PART H				8,659,349.20				1,558,682.86	510,901.60	2,069,584.46	10,728,933.66	
TOTAL				79,714,616.22				14,023,423.92	4,686,902.01	18,710,325.93	98,424,942.15	

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