

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 104(1)a Embankment, from Excavation
Unit of Measurement: cu.m.
Output per hour: 50.00
Quantity: 85.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work:				
	a. Const. Foreman	1	0.18	611.92	107.93
	b. Unskilled Labor	2	0.18	342.24	120.73
	Spreading and Compaction				
	a. Const. Foreman	1	0.21	611.92	130.03
	b. Unskilled Labor	2	0.21	342.24	145.45
Sub-total for A				P	504.14
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	0.18	27,032.00	4,767.77
	b. Payloader (1.50 cu.m.)	1	0.18	13,864.00	2,445.26
	c. Dump Truck (12 cu.yd.)	2	0.18	11,360.00	4,007.24
	Spreading and Compaction:				
	a. Motorized Road Grader (140 hp), G170A	1	0.21	17,384.00	3,694.10
	b. Vibratory Roller (10 mt), SD100C	1	0.21	14,768.00	3,138.20
	c. Water Truck/Pump (16000 L)	1	0.05	19,600.00	1,041.25
Sub-total for B				P	19,093.82
C.	Total (A+B)				19,597.96
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)				19,597.96
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,959.80
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,567.84
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,156.28
J.	Total Unit Cost				285.67

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PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
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Item No./Description: 104(2)a Embankment, Common Borrow
Unit of Measurement: cu.m.
Output per hour: 50.00
Quantity: 251.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.63	611.92	383.98
	b. Unskilled Labor	2	0.63	342.24	429.51
Sub-total for A				P	813.49
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	0.63	17,384.00	10,908.46
	b. Vibratory Roller (10 mt), SD100C	1	0.63	14,768.00	9,266.92
	c. Water Truck/Pump (16000 L)	1	0.16	19,600.00	3,074.75
Sub-total for B				P	23,250.13
C.	Total (A+B)				24,063.62
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)	313.75	cu.m.	388.35	121,844.81
Sub-total for E				P	121,844.81
F.	Direct Cost (C + E)				145,908.43
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	14,590.84
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	11,672.67
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	8,608.60
J.	Total Unit Cost				720.24

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 105(1)a Subgrade Preparation
Unit of Measurement: sq.m.
Output per hour: 300.00
Quantity: 266.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.11	611.92	67.82
	b. Unskilled Labor	2	0.11	342.24	75.86
Sub-total for A				P	143.68
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	0.11	17,384.00	1,926.73
	b. Vibratory Roller (10 mt), SD100C	1	0.11	14,768.00	1,636.79
	c. Water Truck/Pump (16000 L)	1	0.03	19,600.00	543.08
Sub-total for B				P	4,106.60
C.	Total (A+B)				4,250.28
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)				4,250.28
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		425.03
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		340.02
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		250.77
J.	Total Unit Cost				19.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 200(1) Aggregate Subbase Course
Unit of Measurement: cu.m.
Output per hour: 50.00
Quantity: 169.00

**0.30 m. thk., compacted volume,
includes widening**

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.42	611.92	258.54
	b. Unskilled Labor	2	0.42	342.24	289.19
Sub-total for A				P	547.73
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	0.42	17,384.00	7,344.74
	b. Vibratory Roller (10 mt), SD100DC	1	0.42	14,768.00	6,239.48
	c. Water Truck/Pump (16000 L)	1	0.11	19,600.00	2,070.25
Sub-total for B				P	15,654.47
C.	Total (A+B)				16,202.20
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)	194.35	cu.m.	800.70	155,616.05
Sub-total for E				P	155,616.05
F.	Direct Cost (C + E)				171,818.24
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	17,181.82
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	13,745.46
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	10,137.28
J.	Total Unit Cost				1,259.66

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 230.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.50	611.92	305.96
	b. Skilled Labor	4	0.50	443.20	886.40
	c. Unskilled Labor	12	0.50	342.24	2,053.44
Sub-total for A				P	3,245.80
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	0.50	10,544.00	21,088.00
	b. Concrete Vibrator	2	0.50	730.00	730.00
	c. Concrete Batch Plant (30 cu.m.)	1	0.50	14,076.00	7,038.00
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.50	13,864.00	6,932.00
	e. Concrete Screeder (5.5 hp)	1	0.50	4,360.00	2,180.00
	f. Water truck/Pump (16000 L)	1	0.50	19,600.00	9,800.00
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	0.50	261.04	130.52
	h. Bar Cutter, Single Phase	1	0.05	1,758.00	87.90
	Minor Tools 5% of Labor				162.29
Sub-total for B				P	48,148.71
C.	Total (A+B)				51,394.51
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	115.00	kg.	38.00	4,370.00
	b. Curing Compound	66.70	L	35.00	2,334.50
	c. Asphalt Sealant	39.10	L	100.00	3,910.00
	d. Steel Forms (Rental)	105.80	m	52.00	5,501.60
	e. Sand	35.42	cu.m.	1,021.70	36,188.61
	f. Gravel	64.40	cu.m.	1,021.70	65,797.48
	g. Cement	611.80	bag	268.00	163,962.40
	h. Concrete Saw (Diamond Blade 14" Ø)	0.03	pc.	8,000.00	276.00
	i. Pipe Sleeve, 2" Ø	1.79	m.	101.67	182.39
	j. Grease/Tar	1.79	L	112.50	201.83
Sub-total for E				P	282,724.81
F.	Direct Cost (C + E)				334,119.32
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		33,411.93
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		26,729.55
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		19,713.04
J.	Total Unit Cost				1,799.89

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 118.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.14	611.92	84.09
	b. Skilled Labor	4	0.14	443.20	243.63
	c. Unskilled Labor	12	0.14	342.24	564.39
Sub-total for A				P	892.12
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	0.14	10,544.00	5,796.11
	b. Concrete Vibrator	2	0.14	730.00	200.64
	c. Concrete Batch Plant (30 cu.m.)	1	0.14	14,076.00	1,934.42
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.14	13,864.00	1,905.28
	e. Concrete Screeder (5.5 hp)	1	0.14	4,360.00	599.18
	f. Water truck/Pump (16000 L)	1	0.14	19,600.00	2,693.56
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	0.14	261.04	35.87
	h. Bar Cutter, Single Phase	1	0.01	1,758.00	24.16
	Minor Tools 5% of Labor				44.61
Sub-total for B				P	13,233.83
C.	Total (A+B)				14,125.95
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	38.94	kg.	38.00	1,479.72
	b. Curing Compound	34.22	L	35.00	1,197.70
	c. Asphalt Sealant	14.16	L	100.00	1,416.00
	d. Steel Forms (Rental)	54.28	m	52.00	2,822.56
	e. Sand	9.74	cu.m.	1,021.70	9,946.25
	f. Gravel	17.70	cu.m.	1,021.70	18,084.09
	g. Cement	168.74	bag	268.00	45,222.32
	h. Concrete Saw (Diamond Blade 14" Ø)	0.02	pc.	8,000.00	141.60
	i. Pipe Sleeve, 2" Ø	0.92	m.	101.67	93.57
	j. Grease/Tar	0.18	L	112.50	19.91
Sub-total for E				P	80,423.73
F.	Direct Cost (C + E)				94,549.67
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		9,454.97
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		7,563.97
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		5,578.43
J.	Total Unit Cost				992.77

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 101(3)a 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	2.00	set	2,500.00	5,000.00
Sub-total for E				P	5,000.00
F.	Direct Cost (C + E)				14,687.71
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,468.77
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,175.02
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		866.58
J.	Total Unit Cost				284.34

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 128.00

Existing PCC Pavements

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.49	611.92	297.98
	b. Unskilled Labor	2	0.49	342.24	333.31
Sub-total for A				P	631.29
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	0.49	15,984.80	7,783.94
	b. Payloader (1.50 cu.m.), LX80-2C	1	0.49	13,864.00	6,751.19
	c. Dump Truck (12 cu.yd.)	1	0.24	11,360.00	2,765.93
	Minor Tools 10% of Labor				63.13
Sub-total for B				P	17,364.19
C.	Total (A+B)				17,995.48
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)				17,995.48
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,799.55
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,439.64
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,061.73
J.	Total Unit Cost				174.19

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 101(4) Removal of Structures/Obstructions
Unit of Measurement: In.m.
Output per hour: 20.00
Quantity: 180.00

Existing Bridge Sidewalk and Railings

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.13	611.92	688.41
	b. Unskilled Labor	2	1.13	342.24	770.04
Sub-total for A				P	1,458.45
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	1.13	15,984.80	17,982.90
	b. Payloader (1.50 cu.m.), LX80-2C	1	1.13	13,864.00	15,597.00
	c. Dump Truck (12 cu.yd.)	1	0.56	11,360.00	6,390.00
	d. Cutting Outfit	1	0.56	363.60	204.53
	Minor Tools 10% of Labor				145.85
Sub-total for B				P	40,320.27
C.	Total (A+B)				41,778.72
D.	Output/day	160.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	2.00	set	2,500.00	5,000.00
Sub-total for E				P	5,000.00
F.	Direct Cost (C + E)				46,778.72
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		4,677.87
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,742.30
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,759.94
J.	Total Unit Cost				321.99

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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 Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 614.00

Existing Slope Protection at abutments

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.68	611.92	4,696.49
	b. Unskilled Labor	2	7.68	342.24	5,253.38
Sub-total for A				P	9,949.87
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	3.84	15,984.80	61,341.67
	b. Payloader (1.50 cu.m.), LX80-2C	1	3.84	13,864.00	53,203.10
	c. Dump Truck (12 cu.yd.)	1	7.68	11,360.00	87,188.00
Sub-total for B				P	201,732.77
C.	Total (A+B)				211,682.64
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)				211,682.64
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		21,168.26
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		16,934.61
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		12,489.28
J.	Total Unit Cost				427.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 824.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.15	611.92	3,151.39
	b. Skilled Labor	1	5.15	443.20	2,282.48
	c. Unskilled Labor	2	5.15	342.24	3,525.07
Sub-total for A				P	8,958.94
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	5.15	12,296.00	63,324.40
	b. Dump Truck (12 cu.yd.)	2	5.15	11,360.00	117,008.00
	Minor Tools 10% of Labor				895.89
Sub-total for B				P	181,228.29
C.	Total (A+B)				190,187.23
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)				190,187.23
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		19,018.72
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		15,214.98
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		11,221.05
J.	Total Unit Cost				285.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 2,052.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	64.13	611.92	39,239.37
	b. Skilled Labor	1	64.13	443.20	28,420.20
	c. Unskilled Labor	2	64.13	342.24	43,892.28
Sub-total for A				P	111,551.85
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	32.06	12,296.00	394,240.50
	b. Backhoe with Breaker	1	64.13	15,984.80	1,025,025.30
	c. Dump Truck (12 cu.yd.)	1	32.06	11,360.00	364,230.00
	Minor Tools 10% of Labor				11,155.19
Sub-total for B				P	1,794,650.99
C.	Total (A+B)				1,906,202.84
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)				1,906,202.84
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		190,620.28
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		152,496.23
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		112,465.97
J.	Total Unit Cost				1,150.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 400(4)a1 Precast Concrete Piles, Furnished
Unit of Measurement: In.m.
Output per hour: 8.75
Quantity: 4,820.00

20.00 meters/pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	68.86	611.92	42,135.06
	b. Skilled Labor	4	68.86	443.20	122,069.94
	c. Unskilled Labor	8	68.86	342.24	188,525.35
	Formworks				
	a. Skilled Labor	4	206.57	443.20	366,209.83
	b. Unskilled Labor	8	206.57	342.24	565,576.05
Sub-total for A					P 1,284,516.23
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	1	13.77	730.00	10,053.14
	b. Plate Compactor	1	13.77	984.00	13,551.09
	c. Bar Bender	1	27.54	2,812.00	77,450.51
	d. Bar Cutter	1	27.54	1,758.00	48,420.34
	Minor Tools 10% of Labor				128,451.62
Sub-total for B					P 277,926.71
C.	Total (A+B)				1,562,442.94
D.	Output/day	70.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ready Mix Concrete	804.94	cu.m.	4,530.00	3,646,378.20
	b. Reinforcing Steel Bar	231,360.00	kg.	38.00	8,791,680.00
	c. #16 G.I. Tie Wire (2% of RSB)	4,627.20	kg.	78.00	360,921.60
	d. Forms	73,905.06	bd.ft.	37.00	2,734,487.22
	e. Plywood Marine	1,291.76	pc.	880.00	1,136,748.80
	f. Assorted CWN (1 kg./100 bd.ft. of Lumber)	809.76	kg.	50.00	40,488.00
	Casting Bed				
	a. Ready Mix Concrete	144.60	cu.m.	4,200.00	607,320.00
	b. Coco Lumber	7,230.00	bd.ft.	15.00	108,450.00
	c. Base Course (Crushed, Grading A)	144.60	cu.m.	800.70	115,781.22
Sub-total for E					P 17,542,255.04
F.	Direct Cost (C + E)				19,104,697.98
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	1,910,469.80
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	1,528,375.84
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	1,127,177.18
J.	Total Unit Cost				4,910.94

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 4,680.00

6.00 m./pile for Cofferdam

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	12.19	611.92	7,457.78
	b. Skilled Labor	2	12.19	443.20	10,803.00
	c. Unskilled Labor	2	12.19	342.24	8,342.10
Sub-total for A				P	26,602.88
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	12.19	20,848.00	254,085.00
Sub-total for B				P	254,085.00
C.	Total (A+B)				280,687.88
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)	224,640.00	kg.	50.00	11,232,000.00
Sub-total for E				P	11,232,000.00
F.	Direct Cost (C + E)				11,512,687.88
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,151,268.79
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		921,015.03
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		679,248.58
J.	Total Unit Cost				3,047.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 3,120.00

6.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	39.00	611.92	23,864.88
	b. Skilled Labor	6	39.00	443.20	103,708.80
	c. Unskilled Labor	6	39.00	342.24	80,084.16
Sub-total for A				P	207,657.84
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	39.00	20,848.00	813,072.00
	b. Vibro Hammer	1	39.00	16,984.00	662,376.00
	c. Gen. Set (876-1000 KVA)	1	39.00	10,373.36	404,561.04
	d. Welding Machine	1	39.00	2,968.00	115,752.00
	e. Cutting Outfit	1	19.50	363.60	7,090.20
Sub-total for B				P	2,002,851.24
C.	Total (A+B)				2,210,509.08
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)	74.88	kg.	150.00	11,232.00
	b. Oxy/Acetylene (1 set/5000 kg. of Steel Sheet Pile)	29.95	set	2,500.00	74,880.00
Sub-total for E				P	86,112.00
F.	Direct Cost (C + E)				2,296,621.08
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	229,662.11
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	183,729.69
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	135,500.64
J.	Total Unit Cost				912.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 400(14) Precast Concrete Piles, Driven
Unit of Measurement: In.m.
Output per hour: 7.20
Quantity: 3,838.00

19.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	66.63	611.92	40,773.42
	b. Leadman	3	66.63	561.36	112,213.53
	c. Skilled Labor	15	66.63	443.20	442,969.17
	d. Unskilled Labor	15	66.63	342.24	342,061.75
	use triple gang of labor and equipment				
Sub-total for A				P	938,017.86
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	3	35.31	20,848.00	2,208,737.02
	b. Diesel Hammer (K25 or equivalent)	3	17.99	9,992.00	539,286.98
	c. Drop Hammer	3	8.66	1,600.00	41,578.33
	d. Cutting Outfit	3	13.33	363.60	14,536.43
	e. Jack Hammer	6	13.33	1,200.00	95,950.00
	f. Air Compressor (103 Hp)	3	13.33	7,720.00	308,639.17
	Minor Tools 10% of Labor				
Sub-total for B				P	3,208,727.92
C.	Total (A+B)				4,146,745.78
D.	Output/day	57.60	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Log	3,838.00	m.	350.00	1,343,300.00
	b. Coco Lumber (Falsework)	61,408.00	bd.ft.	15.00	921,120.00
	c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	614.08	kg.	68.00	41,757.44
	d. Oxygen/Acetylene	38.38	set	2,500.00	95,950.00
Sub-total for E				P	2,402,127.44
F.	Direct Cost (C + E)				6,548,873.22
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		654,887.32
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		523,909.86
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		386,383.52
J.	Total Unit Cost				2,114.14

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 114.00

19.00 m./pile

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.38	611.92	1,453.31
	b. Skilled Labor	6	2.38	443.20	6,315.60
	c. Unskilled Labor	6	2.38	342.24	4,876.92
Sub-total for A				P	12,645.83
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane (45 T)	1	1.26	20,848.00	26,242.42
	b. Diesel Hammer (K25 or equivalent)	1	0.64	9,992.00	6,407.37
	c. Drop Hammer	1	0.31	1,600.00	494.00
	d. Cutting Outfit	1	0.48	363.60	172.71
	e. Jack Hammer	2	0.48	1,200.00	1,140.00
	f. Air Compressor (103 Hp)	1	0.48	7,720.00	3,667.00
	Minor Tools 10% of Labor				
Sub-total for B				P	38,123.50
C.	Total (A+B)				50,769.33
D.	Output/day	48.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Log	193.80	m.	350.00	67,830.00
	b. Coco Lumber (Falsework)	1,824.00	bd.ft.	15.00	27,360.00
	c. Nail/Spike (1 kg./100 bd.ft. of Lumber)	18.24	kg.	68.00	1,240.32
	d. Oxygen/Acetylene	5.70	set	2,500.00	14,250.00
	e. Fabricated R.C. Pile	114.00	m.	3,200.00	364,800.00
Sub-total for E				P	475,480.32
F.	Direct Cost (C + E)				526,249.65
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		52,624.97
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		42,099.97
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		31,048.73
J.	Total Unit Cost				5,719.50

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 401 (2)a Concrete Railing
Unit of Measurement: In.m.
Output per hour: 1.25
Quantity: 180.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	18.00	611.92	11,014.56
	b. Leadman	2	18.00	561.36	20,208.96
	c. Skilled Labor	4	18.00	443.20	31,910.40
	d. Unskilled Labor	8	18.00	342.24	49,282.56
	use double gang of labor and equipment				
Sub-total for A				P	112,416.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	2	4.50	730.00	6,570.00
	b. Bar Cutter	2	2.25	1,758.00	7,911.00
	c. Bar Bender	2	2.25	2,812.00	12,654.00
	d. Cutting Outfit	2	0.45	363.60	327.24
	Minor Tools 10% of Labor				11,241.65
Sub-total for B				P	38,703.89
C.	Total (A+B)				151,120.37
D.	Output/day	10.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ready Mix Concrete	31.14	cu.m.	4,530.00	141,064.20
	b. Reinforcing Stee Bar	4,464.00	kg.	38.00	169,632.00
	c. Plywood 1/2" x 4' x 8' - 3 uses	108.00	pc.	750.00	27,000.00
	d. Lumber - 3 uses	4,680.00	bd.ft.	37.00	57,720.00
	e. Assorted CWN (1 kg./100 bd.ft. of Lumber)	46.80	kg.	50.00	2,340.00
	f. Tie Wire (2% of RSB)	89.28	kg.	78.00	6,963.84
	g. Oxy/Acetylene (1 set/5000 kg. of steel)	0.90	set	2,500.00	2,250.00
Sub-total for E				P	406,970.04
F.	Direct Cost (C + E)				558,090.41
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		55,809.04
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		44,647.23
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		32,927.33
J.	Total Unit Cost				3,841.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 402(2) 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	60.00	611.92	36,715.20
	b. Skilled Labor	6	60.00	443.20	159,552.00
	c. Unskilled Labor	6	60.00	342.24	123,206.40
Sub-total for A				P	319,473.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	60.00	20,848.00	1,250,880.00
	b. Drop Hammer	1	45.00	1,600.00	72,000.00
	c. Cargo Truck	1	45.00	9,696.00	436,320.00
	Minor Tools 10% of Labor				31,947.36
Sub-total for B				P	1,791,147.36
C.	Total (A+B)				2,110,620.96
D.	Output/day	-	span/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Trunks	600.00	pc.	950.00	570,000.00
	b. Coco Lumber - Floor Planks and Running Board	35,000.00	bd.ft.	15.00	525,000.00
	c. 25 mm. dia. x 400 mm. Machine Bolt w/ standard nuts and washer	150.00	kg.	150.00	22,500.00
	d. 25 mm. dia. Steel Bar	2,000.00	kg.	44.00	88,000.00
Sub-total for E				P	1,205,500.00
F.	Direct Cost (C + E)				3,316,120.96
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		331,612.10
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		265,289.68
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		195,651.14
J.	Total Unit Cost				22,575.13

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 21,993.65

Expansion Dam

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	11.21	611.92	6,859.51
	b. Leadman	1	11.21	561.36	6,292.74
	c. Skilled Labor	4	11.21	443.20	19,872.75
	d. Unskilled Labor	8	11.21	342.24	30,691.57
Sub-total for A				P	63,716.57
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Truck Mounted Crane	1	11.21	20,848.00	233,702.15
	b. Drop Hammer	1	8.97	1,600.00	14,348.56
	c. Welding Machine	1	7.85	2,968.00	23,289.50
	d. Generator Set (1401 - 1500 KW)	1	7.85	21,902.16	171,863.36
	e. Cutting Outfit	2	7.85	363.60	5,706.24
	Minor Tools 10% of Labor				6,371.66
Sub-total for B				P	455,281.47
C.	Total (A+B)				518,998.04
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	21,993.65	kg.	162.93	3,583,425.39
	b. 1 - I Beam x 10.0 m.	1,429.59	kg.	50.00	71,479.36
	c. 2 - Tubular Pipe 0.35 mm Ø x 10.0 m.	18.03	m.	950.75	17,146.58
	d. 4 - RSB 30 mm. Ø x 12.0 m.	351.90	kg.	38.00	13,372.14
	e. Welding Rod (1 kg./2000 kg. of Steel)	11.00	kg.	150.00	1,649.52
	f. Oxy/Acetylene (1 kg./5000 kg. of Steel)	4.40	set	2,500.00	10,996.83
Sub-total for E				P	3,698,069.82
F.	Direct Cost (C + E)				4,217,067.86
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 22 s 2015		421,706.79
H.	Contractor's Profit (CP)		8% per D.O. 22 s 2015		337,365.43
I.	Value Added Tax (VAT)		5% per D.O. 22 s 2015		248,807.00
J.	Total Unit Cost				237.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 404(1)a Reinforcing Steel, Grade 40
Unit of Measurement: kg.
Output per hour: 180.00
Quantity: 16,069.16

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	11.16	611.92	6,828.50
	b. Skilled Labor	2	11.16	443.20	9,891.46
	c. Unskilled Labor	8	11.16	342.24	30,552.83
Sub-total for A				P	47,272.79
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	1.67	11,072.00	18,533.10
	b. Cargo Truck (10 T, 270 Hp)	1	1.67	9,696.00	16,229.85
	c. Bar Cutter	1	5.58	1,758.00	9,808.88
	d. Bar Bender	1	5.58	2,812.00	15,689.75
Sub-total for B				P	60,261.58
C.	Total (A+B)				107,534.37
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	337.45	kg.	78.00	26,321.28
	b. Reinforcing Steel Bar, Grade 40 (with 5% wastage)	16,872.62	kg.	38.00	641,159.48
Sub-total for E				P	667,480.77
F.	Direct Cost (C + E)				775,015.14
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		77,501.51
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		62,001.21
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		45,725.89
J.	Total Unit Cost				59.76

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 404(1)b Reinforcing Steel, Grade 60
Unit of Measurement: kg.
Output per hour: 640.00
Quantity: 236,964.98

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	46.28	611.92	28,321.02
	b. Leadman	3	46.28	561.36	77,942.97
	c. Skilled Labor	8	46.28	443.20	164,098.25
	d. Unskilled Labor	32	46.28	342.24	506,868.09
	use quadruple gang of labor and equipment				
Sub-total for A				P	777,230.32
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	6.94	11,072.00	307,462.06
	b. Cargo Truck (10 T, 270 Hp)	4	6.94	9,696.00	269,251.46
	c. Bar Cutter	4	23.14	1,758.00	162,728.29
	d. Bar Bender	4	23.14	2,812.00	260,291.22
Sub-total for B				P	999,733.04
C.	Total (A+B)				1,776,963.36
D.	Output/day	5,120.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	4,976.26	kg.	78.00	388,148.64
	b. Reinforcing Steel Bar, Grade 60 (with 5% wastage)	248,813.23	kg.	40.00	9,952,529.16
Sub-total for E				P	10,340,677.8C
F.	Direct Cost (C + E)				12,117,641.16
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,211,764.12
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		969,411.29
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		714,940.83
J.	Total Unit Cost				63.36

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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: 1,442.78

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.51	611.92	2,758.96
	b. Leadman	4	4.51	561.36	10,123.99
	c. Skilled Labor	16	4.51	443.20	31,972.00
	d. Unskilled Labor	32	4.51	342.24	49,377.70
	Installation & Removal of Formworks/Falsework				
	a. Const. Foreman	1	90.17	611.92	55,179.12
	b. Leadman	4	90.17	561.36	202,479.75
	c. Skilled Labor	16	90.17	443.20	639,440.10
	d. Unskilled Labor	32	90.17	342.24	987,554.05
	use quadruple gang of labor and equipment				
Sub-total for A				P	1,978,885.67
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	8	4.51	10,544.00	380,316.81
	b. Concrete Vibrator	8	4.51	730.00	26,330.74
	c. Batching Plant (30 cu.m.)	4	2.25	14,076.00	126,928.57
	d. Payloader (1.50 cu.m.), LX80-2C	4	2.25	13,864.00	125,016.89
	e. Water Truck (1000 gal.)	4	1.13	19,600.00	88,370.28
	f. Crane w/ Bucket	4	2.25	20,848.00	187,994.23
Sub-total for B				P	934,957.51
C.	Total (A+B)				2,913,843.18
D.	Output/day	320.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	144,278.00	bd.ft.	37.00	1,334,571.50
	b. Plywood (1/2" x 4' x 8') - 4 uses	2,164.17	pc.	750.00	405,781.88
	c. Assorted CWN (1 kg./100 bd.ft. of Lumber)	1,442.78	kg.	50.00	72,139.00
	d. Cement	15,149.19	bag	268.00	4,059,982.92
	e. Sand	721.39	cu.m.	1,021.70	737,044.16
	f. Gravel	1,442.78	cu.m.	1,021.70	1,474,088.33
	g. Curing Compound	1,442.78	lit.	35.00	50,497.30
Sub-total for E				P	8,134,105.08
F.	Direct Cost (C + E)				11,047,948.26
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,104,794.83
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		883,835.86
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		651,828.95
J.	Total Unit Cost				9,487.52

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 407(8) Lean Concrete
Unit of Measurement: cu.m.
Output per hour: 1.40
Quantity: 39.43

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.52	611.92	2,154.29
	b. Skilled Labor	1	3.52	443.20	1,560.30
	c. Unskilled Labor	2	3.52	342.24	2,409.74
Sub-total for A				P	6,124.32
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	3.52	1,376.00	4,844.26
	b. Concrete Vibrator	1	3.52	730.00	2,569.99
	c. Water Truck	1	0.35	19,600.00	6,900.25
Sub-total for B				P	14,314.50
C.	Total (A+B)				20,438.82
D.	Output/day	11.20	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	374.59	bag	268.00	100,388.78
	b. Sand	19.72	cu.m.	1,021.70	20,142.82
	c. Gravel	39.43	cu.m.	1,021.70	40,285.63
Sub-total for E				P	160,817.23
F.	Direct Cost (C + E)				181,256.05
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		18,125.60
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		14,500.48
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		10,694.11
J.	Total Unit Cost				5,695.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 412(1) 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 Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: **414(1) 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	45.00	611.92	27,536.40
	b. Skilled Labor	6	45.00	443.20	119,664.00
	c. Unskilled Labor	6	45.00	342.24	92,404.80
Sub-total for A				P	239,605.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cutting Outfit	1	30.00	363.60	10,908.00
	Minor Tools 10% of Labor				23,960.52
Sub-total for B				P	34,868.52
C.	Total (A+B)				274,473.72
D.	Output/day	-			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. 63 mm. dia. G.I. Pipes	1,200.00	pc.	1,885.00	2,262,000.00
	b. 63 mm. dia. C-Clamps	3,000.00	pc.	54.00	162,000.00
	c. #16 G.I. Tie Wire	70.00	kg.	78.00	5,460.00
	d. Oxy/Acetylene	7.00	set	2,500.00	17,500.00
Sub-total for E				P	2,446,960.00
F.	Direct Cost (C + E)				2,721,433.72
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		272,143.37
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		217,714.70
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		160,564.59
J.	Total Unit Cost				3,371,856.38

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 505(2)a Grouted Riprap, Class A
Unit of Measurement: cu.m.
Output per hour: 2.50
Quantity: 354.83

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	17.74	611.92	10,856.38
	b. Leadman	2	17.74	561.36	19,918.74
	c. Skilled Labor	4	17.74	443.20	31,452.13
	d. Unskilled Labor	16	17.74	342.24	97,149.62
	use double gang of labor and equipment				
Sub-total for A				P	159,376.86
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	2	17.74	1,376.00	48,824.61
	b. Water Truck/Pump (16000 L)	2	0.89	19,600.00	34,773.34
	Minor Tools 5% of Labor				7,968.84
Sub-total for B				P	91,566.79
C.	Total (A+B)				250,943.65
D.	Output/day	20.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	1,064.49	bag	268.00	285,283.32
	b. Sand	88.71	cu.m.	1,021.70	90,632.45
	c. Gravel	5.32	cu.m.	1,021.70	5,437.95
	d. Weep Holes (PVC)	106.45	m.	101.67	10,822.32
	e. Filter Cloth	5.32	sq.m.	160.00	851.59
	f. Boulders (15 - 25 kg.)	372.57	cu.m.	1,220.70	454,798.03
	Miscellaneous 1% of Materials Cost				8,478.26
Sub-total for E				P	856,303.91
F.	Direct Cost (C + E)				1,107,247.57
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		110,724.76
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		88,579.81
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		65,327.61
J.	Total Unit Cost				3,866.30

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: 508(1) Handlaid Rock Embankment
Unit of Measurement: cu.m.
Output per hour: 6.25
Quantity: 1,028.06

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	20.56	611.92	12,581.81
	b. Leadman	2	20.56	561.36	23,084.47
	c. Skilled Labor	4	20.56	443.20	36,450.90
	d. Unskilled Labor	16	20.56	342.24	112,589.84
	use double gang of labor and equipment				
Sub-total for A				P	184,707.02
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor Cost				18,470.70
Sub-total for B				P	18,470.70
C.	Total (A+B)				203,177.72
D.	Output/day	50.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Boulders	1,079.46	bag	1,220.70	1,317,700.48
Sub-total for E				P	1,317,700.48
F.	Direct Cost (C + E)				1,520,878.20
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		152,087.82
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		121,670.26
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		89,731.81
J.	Total Unit Cost				1,832.94

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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.	1,021.70	3,575.95
	b. Selected Fill	10.00	cu.m.	388.35	3,883.50
	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	268.00	24,120.00
	b. Crushed Gravel	21.00	cu.m.	1,021.70	21,455.70
	c. Washed Sand	18.00	cu.m.	1,021.70	18,390.60
	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	268.00	12,060.00
	c. Washed Sand	8.00	cu.m.	1,021.70	8,173.60
	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	149,818.87
Sub-total for E (I + II + III)				P	298,719.80
F.	Direct Cost (C + E)				345,575.93
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		34,557.59
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		27,646.07

I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016	20,388.98
J.	Total Unit Cost		428,168.57

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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 Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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 Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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	250.00	250.00
	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	1.00	set	12,000.00	12,000.00
	Cellphone	3.00	set	15,000.00	45,000.00
	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	244,400.00
F.	Direct Cost (C + E)				244,400.00
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-

H.	Contractor's Profit (CP)	8% per D.O. 197, s. 2016	19,552.00
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016	13,197.60
J.	Total Unit Cost		277,149.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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 Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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				45,000.00
Sub-total for B				P	45,000.00
C.	Total (A+B)				345,067.20
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)				371,227.20
G.	Overhead, Contingencies and Miscellaneous per D.O. 197, s. 2016				-
H.	Contractor's Profit(CP) 8% per D.O. 197, s. 2016				29,698.18
I.	Value Added Tax (VAT) 5% per D.O. 197, s. 2016				20,046.27
J.	Total Unit Cost				35,080.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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	7,200.00	L	31.00	223,200.00
	b. Spare Parts	1.00	L.S.	50,000.00	50,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	33,480.00	33,480.00
	d. Miscellaneous	1.00	L.S.	45,000.00	45,000.00
Sub-total for E				P	351,680.00
F.	Direct Cost (C + E)				503,715.20
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		25,185.76
J.	Total Unit Cost				44,075.08

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City 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	5.00	13,864.00	69,320.00
	g. Grader	1	3.00	17,384.00	52,152.00
Sub-total for B				P	875,007.00
C.	Total (A+B)				875,007.00
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)				875,007.00
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				43,750.35
J.	Total Unit Cost				918,757.35

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Item No./Description: B.4(1) Construction Survey & Staking
Unit of Measurement: km.
Output per hour: 0.04
Quantity: 0.130

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Field Works				
	a. Geodetic Engineer	1	0.41	833.31	338.53
	b. Skilled Laborer	3	0.41	443.20	540.15
	c. Laborer	3	0.41	342.24	417.11
	For Office Works				
	a. Geodetic Engineer	1	1.22	833.31	1,015.60
	b. Skilled Laborer	2	1.22	443.20	1,080.30
Sub-total for A				P	3,391.68
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories	1	0.41	800.00	325.00
	Minor Tools 10% of Labor				339.17
Sub-total for B				P	664.17
C.	Total (A+B)				4,055.85
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)	30.00	pc	400.00	12,000.00
	b. Blue Printing	150.00	pc	15.00	2,250.00
	Miscellaneous 5% of Materials Cost				712.50
Sub-total for E				P	14,962.50
F.	Direct Cost (C + E)				19,018.35
G.	Overhead, Contingencies and Miscellaneous			12% per D.O. 197, s. 2016	2,282.20
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	1,521.47
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	1,141.10
J.	Total Unit Cost				184,331.72

Republic of the Philippines
Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

Date : March 13, 2016

NAME OF PROJECT : Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road, P00117212MN, Zamboanga City LOCATION: Zamboanga City PROJECT CATEGORY : NATIONAL ROAD	Appropriation : P 120,000,000.00 Source of Funds : CY-2017 GAA Issued Obligated Authority : Released : 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: Beg. of Proj. 1915+740.00 Abutment A 1915+758.00 Abutment B 1915+848.84 End of Proj. 1915+870.00 Length: 18.00 m. 90.84 m. 21.16 m. Approaches Net Length: 39.16 In.m. Bridge Length: 90.84 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		
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	0.39	L.S.	1.00	345,575.93	345,575.93
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.27	L.S.	1.00	244,400.00	244,400.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.56	month	12.00	503,715.20	41,976.27
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey & Staking	0.02	km.	0.13	19,018.35	146,295.02
B.5	Project Billboard/Signboard	0.01	each	2.00	10,259.20	5,129.60
B.7	Occupation Safety and Health Program	0.41	month	12.00	371,227.20	30,935.60
B.9	Mobilization & Demobilization	0.97	L.S.	1.00	875,007.00	875,007.00

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART C - EARTHWORKS						
104(1)a	Embankment, from Excavation	0.02	cu.m.	85.00	19,597.96	230.56
104(2)a	Embankment, Common Borrow	0.16	cu.m.	251.00	145,908.43	581.31
105(1)a	Subgrade Preparation	0.00	sq.m.	266.00	4,250.28	15.98
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course	0.19	cu.m.	169.00	171,818.24	1,016.68
PART E - SURFACE COURSES						
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	0.37	sq.m.	230.00	334,119.32	1,452.69
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	0.11	sq.m.	118.00	94,549.67	801.27
PART F - BRIDGE CONSTRUCTION						
101(3)a6	Removal of Structures/Obstructions	0.02	sq.m.	64.00	14,687.71	229.50
101(3)b5	Removal of Structures/Obstructions	0.02	sq.m.	128.00	17,995.48	140.59
101(4)	Removal of Structures/Obstructions	0.05	ln.m.	180.00	46,778.72	259.88
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	0.24	cu.m.	614.00	211,682.64	344.76
103(2)a	Bridge Excavation Above Ordinary Water Level	0.21	cu.m.	824.00	190,187.23	230.81
103(2)b	Bridge Excavation Below Ordinary Water Level	2.12	cu.m.	2,052.00	1,906,202.84	928.95
400(4)a1	Precast Concrete Piles, Furnished	21.29	ln.m.	4,820.00	19,104,697.98	3,963.63
400(6)	Structural Steel Sheet Piles, Furnished	12.83	ln.m.	4,680.00	11,512,687.88	2,459.98
400(12)	Structural Steel Sheet Piles, Driven	2.56	ln.m.	3,120.00	2,296,621.08	736.10
400(14)	Precast Concrete Piles, Driven	7.30	ln.m.	3,838.00	6,548,873.22	1,706.32
400(16)	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	0.59	ln.m.	114.00	526,249.65	4,616.23
401(2)a	Concrete Railing	0.62	ln.m.	180.00	558,090.41	3,100.50
402(2)	Timber Structures (Craneway)	3.69	ln.m.	182.00	3,316,120.96	18,220.44
403(1)	Structural Steel, Furnished, Fabricated and Erected	4.70	kg.	21,993.65	4,217,067.86	191.74
404(1)a	Reinforcing Steel, Grade 40	0.86	kg.	16,069.16	775,015.14	48.23
404(1)b	Reinforcing Steel, Grade 60	13.50	kg.	236,964.98	12,117,641.16	51.14
405(1)b2	Structural Concrete, Class "A"	12.31	cu.m.	1,442.78	11,047,948.26	7,657.40
407(8)	Lean Concrete	0.20	cu.m.	39.43	181,256.05	4,596.91
412(1)	Elastomeric Bearing Pad	0.15	each	8.00	130,228.17	16,278.52
414(1)	Forms and Falsework	3.03	L.S.	1.00	2,721,433.72	2,721,433.72
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
505(2)a	Grouted Riprap, Class A	1.23	cu.m.	354.83	1,107,247.57	3,120.50
508(1)	Handlaid Rock Embankment	1.69	cu.m.	1,028.06	1,520,878.20	1,479.37
PART H - RIVER PROTECTION STRUCTURES						
103(1)a	Structure Excavation	0.08	cu.m.	295.05	67,895.62	230.12
404(1)a	Reinforcing Steel Bar, Grade 40	0.05	kg.	1,040.42	48,979.48	47.08
404(1)b	Reinforcing Steel Bar, Grade 60	0.16	kg.	2,830.93	139,215.62	49.18
405(1)a2	Structural Concrete, Class "A"	0.59	cu.m.	83.00	533,044.20	6,422.22
505(2)a	Grouted Riprap, Class A	0.86	cu.m.	248.20	770,521.67	3,104.44
104(1)a	Embankment, Common Borrow	1.35	cu.m.	2,085.05	1,212,057.29	581.31
507(1)	Rubble Concrete	0.55	cu.m.	264.00	495,128.53	1,875.49
400(6)	Structural Steel Sheet Piles, Furnished	2.76	ln.m.	1,008.00	2,479,655.85	2,459.98
400(12)	Structural Steel Sheet Piles, Driven	0.83	ln.m.	1,008.00	741,985.27	736.10
PART I - MISCELLANEOUS STRUCTURES						
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.02	sq.m.	26.00	18,978.37	729.94
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.02	sq.m.	20.00	16,103.92	805.20
TOTAL		92.73			P 89,756,441.70	

NAME OF PROJECT : Widening of Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road,
P00117212MN, Zamboanga City

Zamboanga City

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	6.15	7,378,196.88
A.2. Equipment Expenses	12.21	14,650,130.37
A.3. Materials	56.44	67,728,114.44
SUB-TOTAL (DIRECT COST)	74.80	P 89,756,441.70
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.31	8,776,209.23
B.2. Profit (8 % Max. of D.C.)	5.89	7,070,217.56
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	4.40	5,280,143.42
SUBTOTAL (CONTRACT COST)	92.40	P 110,883,011.91
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	4,200,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW	4.10	4,916,988.09
4. Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	P 120,000,000.00

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 Manicahan Bridge (B00574MN) along Pagadian - Zamboanga City Road, P00117212MN, Zamboanga City

Beg. Of Proj. - Abutment A	<u>1915+740.00</u>	to	<u>1915+758.00</u>
Abutment A - Abutment B	<u>1915+758.00</u>	to	<u>1915+848.84</u>
Abutment B - End of Proj.	<u>1,915,848.84</u>	to	<u>1915+870.00</u>

Approaches Net Length **39.16 Ln.m.**
Bridges Net Length **90.84 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				
					(1)	(2)	(3)	(4)	(5)	(6)	(7)	(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.	345,575.93	10.00	8.00	18.00	62,203.67	20,388.98	82,592.65	428,168.57	428,168.57
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	244,400.00	-	8.00	8.00	19,552.00	13,197.60	32,749.60	277,149.60	277,149.60
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	12.00	month	503,715.20	-	-	-	-	25,185.76	25,185.76	528,900.96	44,075.08
	TOTAL OF PART A			1,093,691.13				81,755.67	58,772.34	140,528.01	1,234,219.13	
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey & Staking	0.13	km.	19,018.35	10.00	8.00	18.00	3,423.30	1,122.08	4,545.39	23,563.74	181,259.53
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	371,227.20	-	8.00	8.00	29,698.18	20,046.27	49,744.44	420,971.64	35,080.97
B.9	Mobilization & Demobilization	1.00	L.S.	875,007.00	-	-	-	-	43,750.35	43,750.35	918,757.35	918,757.35
	TOTAL OF PART B			1,275,511.75				34,968.14	65,523.99	100,492.13	1,376,003.88	
PART C - EARTHWORKS												
104(1)a	Embankment, from Excavation	85.00	cu.m.	19,597.96	10.00	8.00	18.00	3,527.63	1,156.28	4,683.91	24,281.87	285.67
104(2)a	Embankment, Common Borrow	251.00	cu.m.	145,908.43	10.00	8.00	18.00	26,263.52	8,608.60	34,872.12	180,780.55	720.24
105(1)a	Subgrade Preparation	266.00	sq.m.	4,250.28	10.00	8.00	18.00	765.05	250.77	1,015.82	5,266.10	19.80
	TOTAL OF PART C			169,756.67				30,556.20	10,015.64	40,571.85	210,328.52	
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course	169.00	cu.m.	171,818.24	10.00	8.00	18.00	30,927.28	10,137.28	41,064.56	212,882.80	1,259.66
	TOTAL OF PART D			171,818.24				30,927.28	10,137.28	41,064.56	212,882.80	
PART E - SURFACE COURSES												
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thk.	230.00	sq.m.	334,119.32	10.00	8.00	18.00	60,141.48	19,713.04	79,854.52	413,973.84	1,799.89
311(1)a	Portland Cement Concrete Pavement, 0.15 m. thk.	118.00	sq.m.	94,549.67	10.00	8.00	18.00	17,018.94	5,578.43	22,597.37	117,147.05	992.77
	TOTAL OF PART E			428,668.99				77,160.42	25,291.47	102,451.89	531,120.88	
PART F - BRIDGE CONSTRUCTION												
101(3)a6	Removal of Structures/Obstructions	64.00	sq.m.	14,687.71	10.00	8.00	18.00	2,643.79	866.58	3,510.36	18,198.08	284.34
101(3)b5	Removal of Structures/Obstructions	128.00	sq.m.	17,995.48	10.00	8.00	18.00	3,239.19	1,061.73	4,300.92	22,296.40	174.19
101(4)	Removal of Structures/Obstructions	180.00	ln.m.	46,778.72	10.00	8.00	18.00	8,420.17	2,759.94	11,180.11	57,958.83	321.99
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	614.00	cu.m.	211,682.64	10.00	8.00	18.00	38,102.88	12,489.28	50,592.15	262,274.79	427.16
103(2)a	Bridge Excavation Above Ordinary Water Level	824.00	cu.m.	190,187.23	10.00	8.00	18.00	34,233.70	11,221.05	45,454.75	235,641.98	285.97
103(2)b	Bridge Excavation Below Ordinary Water Level	2,052.00	cu.m.	1,906,202.84	10.00	8.00	18.00	343,116.51	112,465.97	455,582.48	2,361,785.31	1,150.97
400(4)a1	Precast Concrete Piles, Furnished	4,820.00	ln.m.	19,104,697.98	10.00	8.00	18.00	3,438,845.64	1,127,177.18	4,566,022.82	23,670,720.79	4,910.94
400(6)	Structural Steel Sheet Piles, Furnished	4,680.00	ln.m.	11,512,687.88	10.00	8.00	18.00	2,072,283.82	679,248.58	2,751,532.40	14,264,220.28	3,047.91
400(12)	Structural Steel Sheet Piles, Driven	3,120.00	ln.m.	2,296,621.08	10.00	8.00	18.00	413,391.79	135,500.64	548,892.44	2,845,513.52	912.02
400(14)	Precast Concrete Piles, Driven	3,838.00	ln.m.	6,548,873.22	10.00	8.00	18.00	1,178,797.18	386,383.52	1,565,180.70	8,114,053.92	2,114.14
400(16)	Test Piles, Furnished and Driven (400 mm. x 400 mm.)	114.00	ln.m.	526,249.65	10.00	8.00	18.00	94,724.94	31,048.73	125,773.67	652,023.32	5,719.50
401(2)a	Concrete Railing	180.00	ln.m.	558,090.41	10.00	8.00	18.00	100,456.27	32,927.33	133,383.61	691,474.02	3,841.52
402(2)	Timber Structures (Craneway)	182.00	ln.m.	3,316,120.96	10.00	8.00	18.00	596,901.77	195,651.14	792,552.91	4,108,673.87	22,575.13
403(1)	Structural Steel, Furnished, Fabricated and Erected	21,993.65	kg.	4,217,067.86	10.00	8.00	18.00	759,072.22	248,807.00	1,007,879.22	5,224,947.08	237.57
404(1)a	Reinforcing Steel, Grade 40	16,069.16	kg.	775,015.14	10.00	8.00	18.00	139,502.73	45,725.89	185,228.62	960,243.76	59.76
404(1)b	Reinforcing Steel, Grade 60	236,964.98	kg.	12,117,641.16	10.00	8.00	18.00	2,181,175.41	714,940.83	2,896,116.24	15,013,757.39	63.36
405(1)b2	Structural Concrete, Class "A"	1,442.78	cu.m.	11,047,948.26	10.00	8.00	18.00	1,988,630.67	651,828.95	2,640,459.63	13,688,407.90	9,487.52
407(8)	Lean Concrete	39.43	cu.m.	181,256.05	10.00	8.00	18.00	32,626.09	10,694.11	43,320.20	224,576.24	5,695.57
412(1)	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(1)	Forms and Falsework	1.00	L.S.	2,721,433.72	10.00	8.00	18.00	489,858.07	160,564.59	650,422.66	3,371,856.38	3,371,856.38
	TOTAL OF PART F			77,465,303.31				13,943,754.60	4,570,452.90	18,514,207.49	95,979,510.80	

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(2)a	Grouted Riprap, Class A	354.83	cu.m.	1,107,247.57	10.00	8.00	18.00	199,304.56	65,327.61	264,632.17	1,371,879.74	3,866.30
508(1)	Handlaid Rock Embankment	1,028.06	cu.m.	1,520,878.20	10.00	8.00	18.00	273,758.08	89,731.81	363,489.89	1,884,368.09	1,832.94
TOTAL OF PART G				2,628,125.77				473,062.64	155,059.42	628,122.06	3,256,247.83	
PART H - RIVER PROTECTION STRUCTURES												
103(1)a	Structure Excavation	295.05	cu.m.	67,895.62	10.00	8.00	18.00	12,221.21	4,005.84	16,227.05	84,122.68	285.11
404(1)a	Reinforcing Steel Bar, Grade 40	1,040.42	kg.	48,979.48	10.00	8.00	18.00	8,816.31	2,889.79	11,706.09	60,685.57	58.33
404(1)b	Reinforcing Steel Bar, Grade 60	2,830.93	kg.	139,215.62	10.00	8.00	18.00	25,058.81	8,213.72	33,272.53	172,488.16	60.93
405(1)a2	Structural Concrete, Class "A"	83.00	cu.m.	533,044.20	10.00	8.00	18.00	95,947.96	31,449.61	127,397.56	660,441.76	7,957.13
505(2)a	Grouted Riprap, Class A	248.20	cu.m.	770,521.67	10.00	8.00	18.00	138,693.90	45,460.78	184,154.68	954,676.35	3,846.40
104(1)a	Embankment, Common Borrow	2,085.05	cu.m.	1,212,057.29	10.00	8.00	18.00	218,170.31	71,511.38	289,681.69	1,501,738.98	720.24
507(1)	Rubble Concrete	264.00	cu.m.	495,128.53	10.00	8.00	18.00	89,123.14	29,212.58	118,335.72	613,464.25	2,323.73
400(6)	Structural Steel Sheet Piles, Furnished	1,008.00	ln.m.	2,479,655.85	10.00	8.00	18.00	446,338.05	146,299.70	592,637.75	3,072,293.60	3,047.91
400(12)	Structural Steel Sheet Piles, Driven	1,008.00	ln.m.	741,985.27	10.00	8.00	18.00	133,557.35	43,777.13	177,334.48	919,319.75	912.02
TOTAL OF PART H				6,488,483.54				1,167,927.04	382,820.53	1,550,747.57	8,039,231.10	
PART I - MISCELLANEOUS STRUCTURES												
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	26.00	sq.m.	18,978.37	10.00	8.00	18.00	3,416.11	1,119.72	4,535.83	23,514.20	904.39
612(2)	ReflectORIZED Thermoplastic Pavement Markings (Yellow)	20.00	sq.m.	16,103.92	10.00	8.00	18.00	2,898.71	950.13	3,848.84	19,952.76	997.64
TOTAL OF PART I				35,082.29				6,314.81	2,069.85	8,384.67	43,466.95	1,902.03
TOTAL				89,756,441.70				15,846,426.79	5,280,143.42	21,126,570.21	110,883,011.91	

Prepared by :

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