

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 101(2) Removal of Structures and Obstructions (Existing Headwall)

Unit of Measurement: cu.m.

Output per hour: 5.00

Quantity: 14.00 each

15.12 cu.m.

**Removal of Existing Headwall (for the Extension
and Removal & Replacement of RCPC
Drainage**

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.38	611.92	231.31
	b. Skilled Labor	2	0.38	443.20	335.06
	c. Unskilled Labor	4	0.38	342.24	517.47
Sub-total for A				P	1,083.83
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	0.19	15,984.80	3,021.13
	b. Backhoe	1	0.19	12,296.00	2,323.94
	c. Dump Truck (12 cu.yd.)	1	0.09	11,360.00	1,073.52
Sub-total for B				P	6,418.59
C.	Total (A+B)				7,502.42
D.	Output/day	40.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				7,502.42
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	750.24
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	600.19
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	442.64
J.	Total Unit Cost				663.96

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Item No./Description: 101(3b2) Removal of Structures and Obstructions (Existing PCCP)

Unit of Measurement: sq.m.

Output per hour: 46.00

Quantity: 12,856.50

Removal of Existing PCCP

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	34.94	611.92	21,378.12
	b. Unskilled Labor	2	34.94	342.24	23,913.09
Sub-total for A					P 45,291.21
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	34.94	15,984.80	558,447.23
	b. Payloader (1.50 cu.m.), LX80-2C	1	34.94	13,864.00	484,354.66
	c. Dump Truck (12 cu.yd.)	1	17.47	11,360.00	198,437.28
	Minor Tools 10% of Labor				4,529.12
Sub-total for B					P 1,245,768.30
C.	Total (A+B)				1,291,059.51
D.	Output/day	368.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				1,291,059.51
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	129,105.95
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	103,284.76
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	76,172.51
J.	Total Unit Cost				124.42

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Item No./Description: 101 (4a) Removal of Existing RCPC
 Unit of Measurement: In.m.
 Output per hour: 6.00
 Quantity: 44.00

Removal of Existing RCPC (610 mm. dia.)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.92	611.92	560.93
	b. Unskilled Labor	2	0.92	342.24	627.44
Sub-total for A				P	1,188.37
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe	1	0.92	12,296.00	11,271.33
	b. Boom Truck	1	0.46	8,143.20	3,732.30
Sub-total for B				P	15,003.63
C.	Total (A+B)				16,192.00
D.	Output/day	48.00	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				16,192.00
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,619.20
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,295.36
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		955.33
J.	Total Unit Cost				455.95

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PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 102(2) Surplus Common Excavation
 Unit of Measurement: cu.m.
 Output per hour: 240.00
 Quantity: 93,231.33

For Disposal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	48.56	611.92	29,713.60
	b. Leadman	4	48.56	561.36	109,034.04
	c. Unskilled Labor	8	48.56	342.24	132,947.88
	use quadruple gang of labor & equipment				
Sub-total for A				P	271,695.52
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bulldozer, D6H Series II PSDS/DD	4	48.56	27,032.00	5,250,477.73
	b. Payloader (1.50 cu.m.)	4	48.56	13,864.00	2,692,831.58
	c. Payloader (1.50 cu.m.) - at disposal area	4	12.14	13,864.00	673,207.90
	d. Dump Truck (12 cu.yd.)	8	48.56	11,360.00	4,412,949.62
Sub-total for B				P	13,029,466.83
C.	Total (A+B)				13,301,162.35
D.	Output/day	1,920.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				13,301,162.35
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,330,116.24
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,064,092.99
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		784,768.58
J.	Total Unit Cost				176.77

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 103(1a) Structure Excavation
 Unit of Measurement: cu.m.
 Output per hour: 20.00
 Quantity: 594.50

For Lined Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	3.72	611.92	2,273.67
	b. Unskilled Labor	3	3.72	342.24	3,814.91
Sub-total for A				P	6,088.57
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	3.72	11,360.00	84,419.00
	b. Backhoe (0.80 cu.m.)	1	3.72	12,296.00	45,687.33
	Minor Tools 10% of Labor				608.86
Sub-total for B				P	130,715.18
C.	Total (A+B)				136,803.75
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)				136,803.75
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		13,680.38
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		10,944.30
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		8,071.42
J.	Total Unit Cost				285.11

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PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 103(3) Foundation Fill
 Unit of Measurement: cu.m.
 Output per hour: 1.25
 Quantity: 15.00

For RCPC Bedding

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.50	611.92	917.88
	b. Unskilled Labor	4	1.50	342.24	2,053.44
Sub-total for A				P	2,971.32
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Plate Compactor	1	1.50	984.00	1,476.00
	b. Water Truck/Pump (16000 L)	1	0.02	19,600.00	294.00
	Minor Tools 10% of Labor				297.13
Sub-total for B				P	2,067.13
C.	Total (A+B)				5,038.45
D.	Output/day	10.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Filling Materials (Granular Materials for RCCP Bedding) with 15% Shrinkage Factor	17.25	cu.m.	1,444.15	24,911.59
Sub-total for E				P	24,911.59
F.	Direct Cost (C + E)				29,950.04
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,995.00
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,396.00
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,767.05
J.	Total Unit Cost				2,473.87

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Item No./Description: 103(6a) Pipe Culvert and Drain Excavation
 Unit of Measurement: cu.m.
 Output per hour: 20.00
 Quantity: 175.50

For RCPC Excavation

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.10	611.92	671.20
	b. Unskilled Labor	3	1.10	342.24	1,126.18
Sub-total for A				P	1,797.38
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	1.10	11,360.00	24,921.00
	b. Backhoe (0.80 cu.m.)	1	1.10	12,296.00	13,487.18
	Minor Tools 10% of Labor				179.74
Sub-total for B				P	38,587.91
C.	Total (A+B)				40,385.30
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)				40,385.30
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		4,038.53
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,230.82
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,382.73
J.	Total Unit Cost				285.11

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PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 104(1a1) Embankment from Roadway Excavation
 Unit of Measurement: cu.m.
 Output per hour: 200.00
 Quantity: 50,492.50

Compacted Volume

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
For Excavation Work:				
a. Const. Foreman	1	26.19	611.92	16,028.01
b. Leadman	4	26.19	561.36	58,814.77
c. Unskilled Labor	8	26.19	342.24	71,714.30
Spreading and Compaction				
a. Const. Foreman	1	31.56	611.92	19,310.86
b. Leadman	4	31.56	561.36	70,861.17
c. Unskilled Labor	8	31.56	342.24	86,402.77
use quadruple gang of labor and equipment				
Sub-total for A			P	323,131.88
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	4	26.19	27,032.00	2,832,195.01
b. Backhoe (0.80 cu.m.)	4	26.19	12,296.00	1,288,275.74
c. Dump Truck (12 cu.yd.)	8	26.19	11,360.00	2,380,418.42
Spreading and Compaction				
a. Motorized Road Grader (140 hp), G170A	4	31.56	17,384.00	2,194,404.05
b. Vibratory Roller (10 mt), SD100C	4	31.56	14,768.00	1,864,183.10
c. Water Truck/Pump (16000 L)	4	7.89	19,600.00	618,533.13
Sub-total for B			P	11,178,009.45
C. Total (A+B)				11,501,141.33
D. Output/day	1,600.00	cu.m./day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E			P	-
F. Direct Cost (C + E)				11,501,141.33
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,150,114.13
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		920,091.31
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		678,567.34
J. Total Unit Cost				282.22

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PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 105(1b) Subgrade Preparation
 Unit of Measurement: sq.m.
 Output per hour: 300.00
 Quantity: 33,342.00

Variable Width

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	13.89	611.92	8,501.10
	b. Unskilled Labor	2	13.89	342.24	9,509.14
Sub-total for A				P	18,010.24
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	13.89	17,384.00	241,507.22
	b. Vibratory Roller (10 mt), SD100DC	1	13.89	14,768.00	205,164.44
	c. Water Truck/Pump (16000 L)	1	3.47	19,600.00	68,073.25
Sub-total for B				P	514,744.91
C.	Total (A+B)				532,755.15
D.	Output/day	2,400.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				532,755.15
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		53,275.51
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		42,620.41
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		31,432.55
J.	Total Unit Cost				19.80

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PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 200 Aggregate Subbase Course

Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 13,826.00

0.30 m. thk. (min.), Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	34.57	611.92	21,151.01
	b. Unskilled Labor	2	34.57	342.24	23,659.05
Sub-total for A				P	44,810.07
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	34.57	17,384.00	600,877.96
	b. Vibratory Roller (10 mt), SD100DC	1	34.57	14,768.00	510,455.92
	c. Water Truck/Pump (16000 L)	1	8.64	19,600.00	169,368.50
Sub-total for B				P	1,280,702.38
C.	Total (A+B)				1,325,512.45
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)	15,899.90	cu.m.	909.33	14,458,256.07
Sub-total for E				P	14,458,256.07
F.	Direct Cost (C + E)				15,783,768.51
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	1,578,376.85
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	1,262,701.48
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	931,242.34
J.	Total Unit Cost				1,414.44

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Item No./Description: 300(1) Gravel Surface Course
 Unit of Measurement: cu.m.
 Output per hour: 50.00
 Quantity: 379.50

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.95	611.92	580.56
	b. Unskilled Labor	2	0.95	342.24	649.40
Sub-total for A				P	1,229.96
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	0.95	17,384.00	16,493.07
	b. Vibratory Roller (10 mt), SD100DC	1	0.95	14,768.00	14,011.14
	c. Water Truck/Pump (16000 L)	1	0.24	19,600.00	4,648.88
Sub-total for B				P	35,153.09
C.	Total (A+B)				36,383.04
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Uncrushed Aggregate Surface Course (w/ 15% Shrinkage Factor)	436.43	cu.m.	1,278.15	557,816.61
Sub-total for E				P	557,816.61
F.	Direct Cost (C + E)				594,199.66
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	59,419.97
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	47,535.97
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	35,057.78
J.	Total Unit Cost				1,939.96

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Item No./Description: 311(1c1) Portland Cement Concrete Pavement, 230 mm. thk.

Unit of Measurement: sq.m.

Output per hour: 70.00

Quantity: 19,428.50

Includes widening (width = 6.10 m.)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	34.69	611.92	21,229.80
	b. Skilled Labor	4	34.69	443.20	61,505.08
	c. Unskilled Labor	12	34.69	342.24	142,483.07
Sub-total for A				P	225,217.95
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	34.69	10,544.00	1,463,243.60
	b. Concrete Vibrator	2	34.69	730.00	50,652.88
	c. Concrete Batch Plant (30 cu.m.)	1	34.69	14,076.00	488,349.23
	d. Payloader (1.50 cu.m.), LX80-2C	1	34.69	13,864.00	480,994.15
	e. Concrete Screeder (5.5 hp)	1	34.69	4,360.00	151,264.75
	f. Water truck/Pump (16000 L)	1	34.69	19,600.00	679,997.50
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	34.69	261.04	9,056.46
	h. Bar Cutter, Single Phase	1	3.47	1,758.00	6,099.16
	Minor Tools 5% of Labor				11,260.90
Sub-total for B				P	3,340,918.62
C.	Total (A+B)				3,566,136.56
D.	Output/day	560.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	8,354.26	kg.	38.00	317,461.69
	b. Curing Compound	5,634.27	L	35.00	197,199.28
	c. Asphalt Sealant	2,331.42	L	100.00	233,142.00
	d. Steel Forms (Rental)	8,937.11	m	52.00	464,729.72
	e. Sand	2,457.71	cu.m.	1,444.15	3,549,295.04
	f. Gravel	4,468.56	cu.m.	1,444.15	6,453,263.70
	g. Cement	42,548.42	bag	272.00	11,573,168.88
	h. Concrete Saw (Diamond Blade 14" Ø)	2.91	pc.	8,000.00	23,314.20
	i. Pipe Sleeve, 2" Ø	137.94	m.	101.67	14,024.14
	j. Grease/Tar	169.03	L	112.50	19,015.64
Sub-total for E				P	22,844,614.29
F.	Direct Cost (C + E)				26,410,750.85
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,641,075.09
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,112,860.07
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,558,234.30
J.	Total Unit Cost				1,684.27

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Item No./Description: 311 (1a) Portland Cement Concrete Pavement, 150 mm. thk.
 Unit of Measurement: sq.m.
 Output per hour: 107.33
 Quantity: 4,521.50

For Paving of shoulders, includes transition

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.27	611.92	3,222.30
	b. Skilled Labor	4	5.27	443.20	9,335.36
	c. Unskilled Labor	12	5.27	342.24	21,626.36
Sub-total for A				P	34,184.02
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	5.27	10,544.00	222,093.99
	b. Concrete Vibrator	2	5.27	730.00	7,688.19
	c. Concrete Batch Plant (30 cu.m.)	1	5.27	14,076.00	74,122.61
	d. Payloader (1.50 cu.m.), LX80-2C	1	5.27	13,864.00	73,006.24
	e. Concrete Screeder (5.5 hp)	1	5.27	4,360.00	22,959.26
	f. Water truck/Pump (16000 L)	1	5.27	19,600.00	103,211.36
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	5.27	261.04	1,374.61
	h. Bar Cutter, Single Phase	1	0.53	1,758.00	925.74
	Minor Tools 5% of Labor				1,709.20
Sub-total for B				P	507,091.20
C.	Total (A+B)				541,275.22
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	1,492.10	kg.	38.00	56,699.61
	b. Curing Compound	1,311.24	L	35.00	45,893.23
	c. Asphalt Sealant	542.58	L	100.00	54,258.00
	d. Steel Forms (Rental)	2,079.89	m	40.00	83,195.60
	e. Sand	373.02	cu.m.	1,444.15	538,702.25
	f. Gravel	678.23	cu.m.	1,444.15	979,458.63
	g. Cement	6,465.75	bag	272.00	1,758,682.64
	h. Concrete Saw (Diamond Blade 14" Ø)	0.68	pc.	8,000.00	5,425.80
	i. Pipe Sleeve, 2" Ø	35.27	m.	101.67	3,585.55
	j. Grease/Tar	6.78	L	112.50	763.00
Sub-total for E				P	3,526,664.31
F.	Direct Cost (C + E)				4,067,939.53
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		406,793.95
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		325,435.16
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		240,008.43
J.	Total Unit Cost				1,114.71

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 404(1a) Reinforcing Steel Bar, Grade 40
 Unit of Measurement: kg.
 Output per hour: 180.00
 Quantity: 12,025.00

For Lined Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.35	611.92	5,109.96
	b. Skilled Labor	2	8.35	443.20	7,402.06
	c. Unskilled Labor	8	8.35	342.24	22,863.53
Sub-total for A				P	35,375.55
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	4.18	1,758.00	7,340.26
	b. Bar Bender	1	4.18	2,812.00	11,741.08
	c. Cargo Truck (9-10 mt)	1	1.25	9,696.00	12,145.25
Sub-total for B				P	31,226.59
C.	Total (A+B)				66,602.13
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	252.53	kg.	78.00	19,696.95
	b. Reinforcing Steel Bar, Grade 40 (w/ 5% Wastage)	12,626.25	kg.	38.00	479,797.50
Sub-total for E				P	499,494.45
F.	Direct Cost (C + E)				566,096.58
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	56,609.66
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	45,287.73
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	33,399.70
J.	Total Unit Cost				58.33

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 404(1b) Reinforcing Steel Bar, Grade 60
 Unit of Measurement: kg.
 Output per hour: 180.00
 Quantity: 17,569.50

For RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	12.20	611.92	7,466.06
	b. Skilled Labor	2	12.20	443.20	10,815.00
	c. Unskilled Labor	8	12.20	342.24	33,405.48
Sub-total for A				P	51,686.54
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	6.10	1,758.00	10,724.72
	b. Bar Bender	1	6.10	2,812.00	17,154.66
	c. Cargo Truck (9-10 mt)	1	1.83	9,696.00	17,745.20
Sub-total for B				P	45,624.58
C.	Total (A+B)				97,311.12
D.	Output/day	1,440.00	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	368.96	kg.	78.00	28,778.84
	b. Reinforcing Steel Bar, Grade 60 (w/ 5% Wastage)	18,447.98	kg.	40.00	737,919.00
Sub-total for E				P	766,697.84
F.	Direct Cost (C + E)				864,008.96
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		86,400.90
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		69,120.72
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		50,976.53
J.	Total Unit Cost				60.93

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 405(1a3) Structural Concrete, Class A
 Unit of Measurement: cu.m.
 Output per hour: 2.80
 Quantity: 297.50

For Lined Canal and RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	13.28	611.92	8,127.06
	b. Leadman	2	13.28	561.36	14,911.13
	c. Skilled Labor	8	13.28	443.20	47,090.00
	d. Unskilled Labor	16	13.28	342.24	72,726.00
	Installation/Removal of Formworks				
	a. Leadman	2	13.28	561.36	14,911.13
	b. Skilled Labor	8	13.28	443.20	47,090.00
	c. Unskilled Labor	16	13.28	342.24	72,726.00
	use double gang of labor and equipment				
Sub-total for A				P	277,581.31
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	2	13.28	1,376.00	36,550.00
	b. Concrete Vibrator	2	13.28	730.00	19,390.63
	c. Water Truck/Pump (16000 L)	2	1.33	19,600.00	52,062.50
	Minor Tools 5% of Labor Cost				13,879.07
Sub-total for B				P	121,882.19
C.	Total (A+B)				399,463.50
D.	Output/day	22.40	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	20,825.00	bd.ft.	37.00	192,631.25
	b. Marine Plywood (1/2" x 4' x 8') - 4 uses	476.00	pc.	880.00	104,720.00
	c. Assorted CWN (1 kg/100 bd.ft. of Lumber)	208.25	kg.	50.00	10,412.50
	d. Cement	2,826.25	bag	272.00	768,740.00
	e. Sand	148.75	cu.m.	1,444.15	214,817.31
	f. Gravel	297.50	cu.m.	1,444.15	429,634.63
Sub-total for E				P	1,720,955.69
F.	Direct Cost (C + E)				2,120,419.19
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		212,041.92
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		169,633.54
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		125,104.73
J.	Total Unit Cost				8,830.92

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 407(8) Concrete Structures
 Unit of Measurement: cu.m.
 Output per hour: 1.40
 Quantity: 15.50

Lean Concrete for RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.38	611.92	846.85
	c. Skilled Labor	1	1.38	443.20	613.36
	d. Unskilled Labor	2	1.38	342.24	947.27
Sub-total for A				P	2,407.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.38	1,376.00	1,904.29
	b. Concrete Vibrator	1	1.38	730.00	1,010.27
	c. Water Truck/Pump (16000 L)	1	0.14	19,600.00	2,712.50
Sub-total for B				P	5,627.05
C.	Total (A+B)				8,034.54
D.	Output/day	11.20	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	147.25	bag	272.00	10,013.00
	b. Sand	7.75	cu.m.	1,444.15	2,798.04
	c. Gravel	15.50	cu.m.	1,444.15	22,384.33
Sub-total for E				P	35,195.37
F.	Direct Cost (C + E)				43,229.90
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		4,322.99
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,458.39
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,550.56
J.	Total Unit Cost				3,455.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 500(1b3) Reinforced Concrete Pipe (910mm dia), 36" dia

Unit of Measurement: ln.m.

Output per hour: 1.00

Quantity: 100.00

Class IV, Wall B, AASHTO M-170-85

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.13	611.92	4,359.93
	b. Skilled Labor	2	7.13	443.20	6,315.60
	c. Unskilled Labor	4	7.13	342.24	9,753.84
Sub-total for A					P 20,429.37
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe	1	3.63	12,296.00	44,573.00
	b. Plate Compactor	1	3.63	984.00	3,567.00
	Minor Tools 10% of Labor Cost				2,042.94
Sub-total for B					P 50,182.94
C.	Total (A+B)				70,612.31
D.	Output/day	8.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	108.00	bag	272.00	29,376.00
	b. Sand	6.10	cu.m.	1,444.15	8,809.32
	c. Sand Bedding/Selected Sandy Soil	12.80	cu.m.	1,444.15	18,485.12
	d. RC Pipes (910mm dia)	100.00	pc.	1,665.00	166,500.00
Sub-total for E					P 223,170.44
F.	Direct Cost (C + E)				293,782.74
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	29,378.27
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	23,502.62
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	17,333.18
J.	Total Unit Cost				3,639.97

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 505(5) Grouted Riprap, Class A
 Unit of Measurement: cu.m.
 Output per hour: 3.75
 Quantity: 908.00

For Slope Protection & Headwall apron

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	30.27	611.92	18,520.78
	b. Leadman	3	30.27	561.36	50,971.49
	c. Skilled Labor	6	30.27	443.20	80,485.12
	d. Unskilled Labor	24	30.27	342.24	248,603.14
	use triple gang of labor and equipment				
Sub-total for A				P	398,580.52
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	3	30.27	1,376.00	124,940.80
	b. Water Truck/Pump (16000 L)	3	1.51	19,600.00	88,984.00
	Minor Tools 5% of Labor				19,929.03
Sub-total for B				P	233,853.83
C.	Total (A+B)				632,434.35
D.	Output/day	30.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	2,724.00	bag	272.00	740,928.00
	b. Sand	227.00	cu.m.	1,444.15	327,822.05
	c. Gravel	13.62	cu.m.	1,444.15	19,669.32
	d. Weep Holes (PVC)	272.40	m.	101.67	27,694.00
	e. Filter Cloth	13.62	sq.m.	160.00	2,179.20
	f. Boulders (15 - 25 kg.)	953.40	cu.m.	1,643.15	1,566,579.21
	Miscellaneous 1% of Materials Cost				26,848.72
Sub-total for E				P	2,711,720.50
F.	Direct Cost (C + E)				3,344,154.85
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	334,415.48
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	267,532.39
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	197,305.14
J.	Total Unit Cost				4,563.22

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 506(1) Stone Masonry
 Unit of Measurement: cu.m.
 Output per hour: 1.60
 Quantity: 94.00

For Headwall and Wingwall

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.34	611.92	4,493.79
	b. Skilled Labor	2	7.34	443.20	6,509.50
	c. Unskilled Labor	8	7.34	342.24	20,106.60
Sub-total for A				P	31,109.89
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	7.34	1,376.00	10,105.00
	b. Water Truck/Pump (16000 L)	1	0.37	19,600.00	7,196.88
	c. Backhoe (Wheel Type 0.28 cu.m.)	1	0.73	12,296.00	9,029.88
	Minor Tools 10% of Labor				3,110.99
Sub-total for B				P	29,442.74
C.	Total (A+B)				60,552.63
D.	Output/day	12.80	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	517.00	bag	272.00	140,624.00
	b. Sand	28.20	cu.m.	1,444.15	40,725.03
	c. Gravel Fill	1.88	cu.m.	1,444.15	2,715.00
	d. Weep Holes (PVC)	28.20	m.	101.67	2,867.00
	e. Filter Cloth	1.41	sq.m.	160.00	225.60
	f. Boulders (15 - 25 kg.)	98.70	cu.m.	1,643.15	162,178.91
	Miscellaneous 1% of Materials Cost				3,493.36
Sub-total for E				P	352,828.89
F.	Direct Cost (C + E)				413,381.52
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	41,338.15
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	33,070.52
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	24,389.51
J.	Total Unit Cost				5,448.72

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Road at Vitali - Sibulao By-Pass Road Project (Alternate Road of N1), Zamboanga City, (2nd LD)

Item No./Description: 603(3a1) Metal Guardrail (Metal Beam) Including Posts

Unit of Measurement: ln.m.

Output per hour: 8.40

Quantity: 900.00

Metal Guardrail (Metal Beam) including post

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	13.39	611.92	8,195.36
	b. Leadman	2	13.39	561.36	15,036.43
	c. Skilled Labor	4	13.39	443.20	23,742.86
	d. Unskilled Labor	8	13.39	342.24	36,668.57
	use double gang of labor and equipment				
Sub-total for A					P 83,643.21
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	2	6.70	1,376.00	18,428.57
	b. Concrete Vibrator	2	6.70	730.00	9,776.79
	c. Water Truck/Pump (16000 L)	2	0.67	19,600.00	26,250.00
	d. Cargo Truck (9-10 mt.)	2	3.35	9,696.00	64,928.57
	Minor Tools 10% of Labor				8,364.32
Sub-total for B					P 127,748.25
C.	Total (A+B)				211,391.46
D.	Output/day	67.20	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	130.93	bag	271.00	35,481.49
	b. Sand	9.35	cu.m.	1,383.80	12,941.30
	c. Gravel	18.70	cu.m.	1,383.80	25,882.60
	d. M.F.B.G. Class B 3.34mm.	900.00	ln.m.	3,350.00	3,015,000.00
	e. Bolt, Nut & Washer 5/8" dia. X 9"	334.00	pc.	28.00	9,352.00
	f. Bolt, Nut & Washer 5/8" dia. X 1"	1,336.00	pc.	21.00	28,056.00
	g. Guardrail Post 4" x 5' with dowels	334.00	pc.	1,770.00	591,180.00
Sub-total for E					P 3,717,893.38
F.	Direct Cost (C + E)				3,929,284.85
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		392,928.48
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		314,342.79
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		231,827.81
J.	Total Unit Cost				5,409.32

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 611(1) Trees (Furnishing & Transplanting)
 Unit of Measurement: each
 Output per hour: 4.00
 Quantity: 1,282.00

Dia. Not less than 1.50 cm. & height not less than 1.50 cm.

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	40.06	611.92	24,515.05
	b. Leadman	4	40.06	561.36	89,957.94
	c. Skilled Labor	4	40.06	443.20	71,022.80
	d. Unskilled Labor	8	40.06	342.24	109,687.92
	use quadruple gang of labor and equipment				
Sub-total for A				P	295,183.71
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck (2-5 mt)	4	40.06	6,264.00	1,003,806.00
	b. Backhoe (0.80 cu.m.)	4	40.06	12,296.00	1,970,434.00
	c. Water Truck/Pump (16000 L)	4	20.03	19,600.00	1,570,450.00
	Minor Tools 10% of Labor				29,518.37
Sub-total for B				P	4,574,208.37
C.	Total (A+B)				4,869,392.08
D.	Output/day	32.00	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Trees (Delivered at Site)	1,282.00	pc.	33.00	42,306.00
	b. Fertilizers	3,846.00	kg.	26.00	99,996.00
	c. Bamboo Pole	3,846.00	pc.	10.00	38,460.00
	d. Polyethylene	3,846.00	sq.m.	40.00	153,840.00
	e. Tie Wire	320.50	kg.	78.00	24,999.00
Sub-total for E				P	317,295.00
F.	Direct Cost (C + E)				5,186,687.08
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		518,668.71
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		414,934.97
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		306,014.54
J.	Total Unit Cost				5,012.72

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 612(1) Reflectorized Thermoplastic Pavement Markings (White)

Unit of Measurement: sq.m.

Output per hour: 25.00

Quantity: 901.00

For Center Lines (Separation) & Edge Lines

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.51	611.92	2,756.70
	b. Skilled Labor	2	4.51	443.20	3,993.23
	c. Unskilled Labor	6	4.51	342.24	9,250.75
Sub-total for A					P 16,000.68
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck (2-5 mt)	1	4.51	6,264.00	28,219.32
	b. Applicator Machine	1	4.51	750.00	3,378.75
	c. Kneading Machine	1	4.51	1,500.00	6,757.50
	Minor Tools 10% of Labor				1,600.07
Sub-total for B					P 39,955.64
C.	Total (A+B)				55,956.32
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (White)	292.83	bag	1,585.00	464,127.63
	b. Glass Beads	29.73	bag	2,500.00	74,332.50
	c. Primer	108.12	L	160.00	17,299.20
	d. LPG (50 kg)	3.60	cyl.	3,450.00	12,433.80
	e. LPG (12 kg)	1.80	cyl.	828.00	1,492.06
	f. Calsumine	112.63	kg.	30.00	3,378.75
	Miscellaneous 5% of Materials Cost				28,653.20
Sub-total for E					P 601,717.13
F.	Direct Cost (C + E)				657,673.44
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		65,767.34
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		52,613.88
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		38,802.73
J.	Total Unit Cost				904.39

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 612(2) Reflectorized Thermoplastic Pavement Markings (Yellow)
 Unit of Measurement: sq.m.
 Output per hour: 25.00
 Quantity: 226.00

For Barrier Lines

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.13	611.92	691.47
	b. Skilled Labor	2	1.13	443.20	1,001.63
	c. Unskilled Labor	6	1.13	342.24	2,320.39
Sub-total for A				P	4,013.49
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck (2-5 mt)	1	1.13	6,264.00	7,078.32
	b. Applicator Machine	1	1.13	750.00	847.50
	c. Kneading Machine	1	1.13	1,500.00	1,695.00
	Minor Tools 10% of Labor				401.35
Sub-total for B				P	10,022.17
C.	Total (A+B)				14,035.66
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (Yellow)	73.45	bag	1,800.00	132,210.00
	b. Glass Beads	7.46	bag	2,500.00	18,645.00
	c. Primer	27.12	L	175.00	4,746.00
	d. LPG (50 kg)	0.90	cyl.	3,450.00	3,118.80
	e. LPG (12 kg)	0.45	cyl.	828.00	374.26
	f. Calsumine	28.25	kg.	30.00	847.50
	Miscellaneous 5% of Materials Cost				7,997.08
Sub-total for E				P	167,938.63
F.	Direct Cost (C + E)				181,974.29
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		18,197.43
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		14,557.94
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		10,736.48
J.	Total Unit Cost				997.64

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 622(1a) Coconet Bio-Engineering Solutions, Coco-net (CN400)

Unit of Measurement: sq.m.

Output per hour: 150.00

Quantity: 18,897.50

For Slope Protection (Cut Slope)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	15.75	611.92	9,636.47
	b. Leadman	3	15.75	561.36	26,520.75
	b. Unskilled Labor	24	15.75	342.24	129,349.61
	use triple gang of labor and equipment				
Sub-total for A				P	165,506.82
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Water Truck/Pump (16000L)	3	3.94	19,600.00	231,494.38
	Minor Tools 10% of Labor				16,550.68
Sub-total for B				P	248,045.06
C.	Total (A+B)				413,551.88
D.	Output/day	1,200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Erosion Control Net CGN 400 with 5% wastage factor	19,842.38	sq.m.	110.00	2,182,661.25
Sub-total for E				P	2,182,661.25
F.	Direct Cost (C + E)				2,596,213.13
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	259,621.31
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	207,697.05
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	153,176.57
J.	Total Unit Cost				170.22

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 622(1b) Coconet Bio-Engineering Solutions, Coco-net (CN700)

Unit of Measurement: sq.m.

Output per hour: 50.00

Quantity: 2,964.00

For Slope Protection (Fill Slope)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	7.41	611.92	4,534.33
	b. Unskilled Labor	8	7.41	342.24	20,287.99
Sub-total for A				P	24,822.31
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Water Truck/Pump (16000L)	1	1.85	19,600.00	36,309.00
	Minor Tools 10% of Labor				2,482.23
Sub-total for B				P	38,791.23
C.	Total (A+B)				63,613.55
D.	Output/day	400.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Erosion Control Net CGN 700 with 5% wastage factor	3,112.20	sq.m.	150.00	466,830.00
Sub-total for E				P	466,830.00
F.	Direct Cost (C + E)				530,443.55
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	53,044.35
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	42,435.48
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	31,296.17
J.	Total Unit Cost				221.73

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 622(2) Coconet Bio-Engineering Solutions, Coco-logs/Fascine (CN200)

Unit of Measurement: In.m.

Output per hour: 15.00

Quantity: 2,052.50

For Slope Protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	17.10	611.92	10,466.38
	b. Unskilled Labor	8	17.10	342.24	46,829.84
Sub-total for A				P	57,296.22
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor				5,729.62
Sub-total for B				P	5,729.62
C.	Total (A+B)				63,025.84
D.	Output/day	120.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Coco Fiber Roll (CGR 200)	2,155.13	sq.m.	410.00	883,601.25
Sub-total for E				P	883,601.25
F.	Direct Cost (C + E)				946,627.09
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	94,662.71
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	75,730.17
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	55,851.00
J.	Total Unit Cost				571.44

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 622(3) Coconet Bio-Engineering Solutions, Vegetation
 Unit of Measurement: sq.m.
 Output per hour: 140.00
 Quantity: 21,861.50

For Slope Protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	19.52	611.92	11,944.19
	b. Leadman	4	19.52	561.36	43,829.18
	c. Unskilled Labor	8	19.52	342.24	53,442.00
	use quadruple gang of labor and equipment				
Sub-total for A				P	109,215.37
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Hydroseeding Machine	4	19.52	7,616.00	594,632.80
	b. Water Truck/Pump (16000 L)	8	19.52	19,600.00	3,060,610.00
	Minor Tools 10% of Labor				10,921.54
Sub-total for B				P	10,921.54
C.	Total (A+B)				120,136.91
D.	Output/day	1,120.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Vetiver Grass System	22,954.58	sq.m.	102.00	2,341,366.65
Sub-total for E				P	2,341,366.65
F.	Direct Cost (C + E)				2,461,503.56
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		246,150.36
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		196,920.28
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		145,228.71
J.	Total Unit Cost				139.51

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, 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.	1,444.15	5,054.53
	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	272.00	24,480.00
	b. Crushed Gravel	21.00	cu.m.	1,444.15	30,327.15
	c. Washed Sand	18.00	cu.m.	1,444.15	25,994.70
	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	272.00	12,240.00
	c. Washed Sand	8.00	cu.m.	1,444.15	11,553.20
	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	172,296.10
Sub-total for E (I + II + III)				P	321,197.03
F.	Direct Cost (C + E)				368,053.15
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		36,805.32
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		29,444.25

I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016	21,715.14
J.	Total Unit Cost		456,017.86

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, 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: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, 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: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, 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	9,089.41	9,089.41
Cellphone	1.00	set	10,000.00	10,000.00
Lighting/Water Fixtures				
a. Electrical Bill	10.53	mos.	3,000.00	31,590.00
b. Water Bill	10.53	mos.	1,500.00	15,795.00
c. LPG (11 kg)	10.53	mos.	1,000.00	10,530.00
Sub-total for E				P 138,404.41
F. Direct Cost (C + E)				138,404.41
G. Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		11,072.35

I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016	7,473.84
J.	Total Unit Cost		156,950.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, 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: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

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

Unit of Measurement: month

Output per hour:

Quantity: 10.53

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practioner	1	316.00	611.92	193,366.72
	b. First Aider	1	158.00	443.20	70,025.60
	c. Flagman (2 per shift)	6	316.00	342.24	648,887.04
Sub-total for A					P 912,279.36
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Warning Signs and Barricades				30,000.00
Sub-total for B					P 30,000.00
C.	Total (A+B)				942,279.36
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)				968,439.36
G.	Overhead, Contingencies and Miscellaneous per D.O. 197, s. 2016				-
H.	Contractor's Profit(CP) 8% per D.O. 197, s. 2016				77,475.15
I.	Value Added Tax (VAT) 5% per D.O. 197, s. 2016				52,295.73
J.	Total Unit Cost				104,260.47

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: A.1.2(1) Provision of 4x4 Pick Up Type Service Vehicle for the Engineer
 Unit of Measurement: each

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 Months	Monthly Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Service Vehicle	1	10.53	53,869.00	567,240.57
One (1) Unit Brand New, Diesel, Manual transimission 4x4 pick up double cab, loaded w/ complete with accessoriess , Insured and LTO Registered to Red Plate for 3 years				
"The Vehicle will be for Turn-over to the DPWH Regional Office upon project completion"				
Sub-total for B				P 567,240.57
C. Total (A+B)				567,240.57
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)				567,240.57
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		28,362.03
J. Total Unit Cost				595,602.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, 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:

Quantity: 10.53

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	316	422.32	133,410.89
Sub-total for A				P	133,410.89
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)				133,410.89
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Diesel	9,477.00	L	31.00	293,787.00
	b. Spare Parts	1.00	L.S.	50,000.00	50,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	44,068.05	44,068.05
	d. Miscellaneous	1.00	L.S.	45,000.00	45,000.00
Sub-total for E				P	432,855.05
F.	Direct Cost (C + E)				566,265.94
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		28,313.30
J.	Total Unit Cost				56,465.26

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, 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	3	5.00	11,360.00	170,400.00
	f. Payloader	1	5.00	13,864.00	69,320.00
	g. Road Grader	1	5.00	17,384.00	86,920.00
	h. Road Roller	1	5.00	13,216.00	66,080.00
Sub-total for B				P	919,055.00
C.	Total (A+B)				919,055.00
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)				919,055.00
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				45,952.75
J.	Total Unit Cost				965,007.75

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: B.4(1) Construction Survey & Staking
 Unit of Measurement: km.
 Output per hour: 0.04
 Quantity: 3.885

Designation	No. of Persons	No. of Days	Daily Rate	Amount
A. Labor				
For Field Works				
a. Geodetic Engineer	1	12.14	833.31	10,118.10
b. Skilled Laborer	3	12.14	443.20	16,144.09
c. Laborer	3	12.14	342.24	12,466.50
For Office Works				
a. Geodetic Engineer	1	36.43	833.31	30,354.31
b. Skilled Laborer	2	36.43	443.20	32,288.17
Sub-total for A			P	101,371.17
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Total Station w/ complete accessories Minor Tools 10% of Labor	1	12.14	800.00	9,713.65 10,137.12
Sub-total for B			P	19,850.77
C. Total (A+B)				121,221.93
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)	70.00	pc	400.00	28,000.00
b. Blue Printing	350.00	pc	15.00	5,250.00
Miscellaneous 5% of Materials Cost				1,662.50
Sub-total for E			P	34,912.50
F. Direct Cost (C + E)				156,134.43
G. Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		15,613.44
H. Contractor's Profit (CP)		8% per D.O. 197, s. 2016		12,490.75
I. Value Added Tax (VAT)		5% per D.O. 197, s. 2016		9,211.93
J. Total Unit Cost				49,788.33

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: 10.00

Quantity: 4.00

Removal of existing slope protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.05	611.92	30.60
	b. Unskilled Labor	2	0.05	342.24	34.22
Sub-total for A				P	64.82
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	0.03	15,984.80	399.62
	b. Backhoe	1	0.03	12,296.00	307.40
	c. Dump Truck (12 cu.yd.)	1	0.05	11,360.00	568.00
Sub-total for B				P	1,275.02
C.	Total (A+B)				1,339.84
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)				1,339.84
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	133.98
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	107.19
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	79.05
J.	Total Unit Cost				415.02

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction of Concrete Road at Vitali - Sibulao By-Pass Road Project (Alternate Road of N1), Zamboanga City, (2nd LD)

Item No./Description: 603(3b1) Metal Beam End Piece

Unit of Measurement: each

Output per hour: 6.00

Quantity: 30.00

Fish Tail, see typical drawing

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.63	611.92	382.45
	b. Skilled Labor	1	0.63	443.20	277.00
	c. Unskilled Labor	2	0.63	342.24	427.80
Sub-total for A				P	1,087.25
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck (9 - 10 mt.)	1	0.63	9,696.00	6,060.00
	Minor Tools 5% of Labor Cost				54.36
Sub-total for B				P	6,114.36
C.	Total (A+B)				7,201.61
D.	Output/day	48.00	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Metal Guardrail End Piece	30.00	each	1,350.00	40,500.00
Sub-total for E				P	40,500.00
F.	Direct Cost (C + E)				47,701.61
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	4,770.16
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	3,816.13
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	2,814.40
J.	Total Unit Cost				1,970.08

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Item No./Description: 620(1a) Chevron Signs

Unit of Measurement: each

Output per hour: 1.00

Quantity: 123.00

Type HM-1A with typical size = 450 mm x 600 mm

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	15.38	611.92	9,408.27
	b. Skilled Labor	1	15.38	443.20	6,814.20
	c. Unskilled Labor	2	15.38	342.24	10,523.88
Sub-total for A				P	26,746.35
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck (2-5 mt)	1	15.38	6,264.00	96,309.00
	Minor Tools 10% of Labor Cost				2,674.64
Sub-total for B				P	98,983.64
C.	Total (A+B)				125,729.99
D.	Output/day	8.00	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	59.04	bag	272.00	16,058.88
	b. Sand	3.08	cu.m.	1,444.15	4,440.76
	c. Gravel	6.15	cu.m.	1,444.15	8,881.52
	d. Form Lumber, Good - 4 uses	984.00	bd.ft.	37.00	36,408.00
	e. 75 mm. dia. G.I. Pipe	399.75	m.	388.00	155,103.00
	f. G.I. Flat Bar, 1-1/2" x 1/8"	615.00	kg.	48.00	29,520.00
	g. G.I. Bolts w/ Nuts & Washer, 5 mm. dia.	369.00	pc.	1.00	369.00
	h. G.I. Bolts w/ Nuts & Washer, 2 mm. dia.	1,476.00	pc.	0.50	738.00
	i. Sign Face, 3 mm. thk. Aluminum Sheet	246.00	pc.	4,500.00	1,107,000.00
	j. Assorted CWN (1 kg./100 bd.ft. of Lumber)	9.84	kg.	50.00	492.00
	Miscellaneous 0.30% of Materials Cost				4,077.03
Sub-total for E				P	1,363,088.20
F.	Direct Cost (C + E)				1,488,818.18
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	148,881.82
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	119,105.45
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	87,840.27
J.	Total Unit Cost				14,997.12

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)	(9)	(10)	(11)	(12)	(13)
								(5) x (8)	5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
TOTAL OF PART G				7,645,073.74				1,376,113.27	451,059.35	1,827,172.62	9,472,246.37	
PART H - MISCELLANEOUS STRUCTURES												
603(3a1)	Metal Guardrail (Metal Beam) Including Posts	900.00	ln.m.	3,929,284.85	10.00	8.00	18.00	707,271.27	231,827.81	939,099.08	4,868,383.92	5,409.32
603(3b1)	Metal Beam End Piece	30.00	each	47,701.61	10.00	8.00	18.00	8,586.29	2,814.40	11,400.69	59,102.30	1,970.08
611(1)	Trees (Furnishing & Transplanting)	1,282.00	each	5,186,687.08	10.00	8.00	18.00	933,603.67	306,014.54	1,239,618.21	6,426,305.29	5,012.72
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	901.00	sq.m.	657,673.44	10.00	8.00	18.00	118,381.22	38,802.73	157,183.95	814,857.40	904.39
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	226.00	sq.m.	181,974.29	10.00	8.00	18.00	32,755.37	10,736.48	43,491.86	225,466.15	997.64
620(1a)	Chevron Signs	123.00	each	1,488,818.18	10.00	8.00	18.00	267,987.27	87,840.27	355,827.55	1,844,645.73	14,997.12
622(1a)	Coconet Bio-Engineering Solutions, Coco-net (CN400)	18,897.50	sq.m.	2,596,213.13	10.00	8.00	18.00	467,318.36	153,176.57	620,494.94	3,216,708.07	170.22
622(1b)	Coconet Bio-Engineering Solutions, Coco-net (CN700)	2,964.00	sq.m.	530,443.55	10.00	8.00	18.00	95,479.84	31,296.17	126,776.01	657,219.55	221.73
622(2)	Coconet Bio-Engineering Solutions, Coco-logs/Fascine (CN200)	2,052.50	ln.m.	946,627.09	10.00	8.00	18.00	170,392.88	55,851.00	226,243.88	1,172,870.97	571.44
622(3)	Coconet Bio-Engineering Solutions, Vegetation	21,861.50	sq.m.	2,461,503.56	10.00	8.00	18.00	443,070.64	145,228.71	588,299.35	3,049,802.91	139.51
TOTAL OF PART H				18,026,926.78				3,244,846.82	1,063,588.68	4,308,435.50	22,335,362.28	
TOTAL				116,916,449.10				20,564,815.39	6,874,063.22	27,438,878.61	144,355,327.72	

Prepared by :

Submitted by :

Recommending Approval:

Approved by :

BELEN A. SAPALLED A
Head, BAC Technical Working Group

LEONCIO B. SOLAMILLO
Chief, Construction Division

CAYAMOMBAO D. DIA
OIC - Assistant Regional Director

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

NAME OF PROJECT : Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City

Zamboanga City

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	2.60	3,902,744.98
A.2. Equipment Expenses	28.02	42,034,427.80
A.3. Materials	47.32	70,979,276.33
SUB-TOTAL (DIRECT COST)	77.94	P 116,916,449.10
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.58	11,375,704.38
B.2. Profit (8 % Max. of D.C.)	6.13	9,189,111.01
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	4.58	6,874,063.22
SUBTOTAL (CONTRACT COST)	96.24	P 144,355,327.72
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	5,250,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW		
4. Physical Reserved	0.26	394,672.28
TOTAL ESTIMATED PROJECT COST	100.00	P 150,000,000.00

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	

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 : November 21, 2016

NAME OF PROJECT : Road Upgrading (Gravel to Concrete) of Jct. Tagasilay along MCLL Highway Tagasilay - Vitali Section Leading to Merloquet Falls, Vitali, Zamboanga City LOCATION: Zamboanga City	Appropriation : P 150,000,000.00 Source of Funds : CY-2017 GAA Issued Obligated Authority : Released : Cal. Days to Complete : 316 Calendar Days Desirable Starting Date : upon approval Mode of Implementation : by contract
PROJECT CATEGORY : NATIONAL ROAD	Station Limits: Beg. - End K009+930.00 - K012+842.64 Length 2,912.64 In.m. Exception 17.18 In.m. (Existing Spillway) Additional (width = 6.70 and thickness = 0.28) K008+510.00 - K009+500.00 Length 990.00 In.m. Total Length 3,885.46 In.m.
PROJECT DESCRIPTION : Scope of Work : Road Upgrading (Gravel to Concrete) Road Width : 6.10 m. Roadbed Width : 12.00 m. Subbase Course : 0.30 m. thk. Surface Course : 0.15 m. thk.	

MINIMUM EQUIPMENT REQUIREMENT :			TECHNICAL PERSONNEL REQUIRED :		
Description	No.	Description	No.	Description	No.
Dump Truck	12	Water Pump	1	Project Engineer	1
Transti Mixer	4	Concrete Screeder	1	Materials Engineer	1
Bulldozer	2	Concrete Vibrator	2	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				

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	0.31	L.S.	1.00	368,053.15	368,053.15
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.12	L.S.	1.00	138,404.41	138,404.41
A.1.2(1)	Provision of 4x4 Pick Up Type Service Vehicle for the Engineer	0.49	each	1.00	567,240.57	567,240.57
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.48	month	10.53	566,265.94	53,776.44
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey & Staking	0.13	km.	3.89	156,134.43	40,184.29
B.5	Project Billboard/Signboard	0.01	each	2.00	10,259.20	5,129.60
B.7	Occupation Safety and Health Program	0.83	month	10.53	968,439.36	91,940.45
B.9	Mobilization & Demobilization	0.79	L.S.	1.00	919,055.00	919,055.00
PART C - EARTHWORKS						
101(2)	Removal of Structures and Obstructions (Existing Headwall)	0.01	each	14.00	7,502.42	535.89
101(3b2)	Removal of Structures and Obstructions (Existing PCCP)	1.10	sq.m.	12,856.50	1,291,059.51	100.42
101(4a)	Removal of Existing RCPC	0.01	ln.m.	44.00	16,192.00	368.00
101(6)	Removal of Structures and Obstructions	0.00	cu.m.	4.00	1,339.84	334.96
102(2)	Surplus Common Excavation	11.38	cu.m.	93,231.33	13,301,162.35	142.67
102(3b)	Surplus Rock Excavation	1.73	cu.m.	10,671.50	2,018,276.02	189.13
103(1a)	Structure Excavation	0.12	cu.m.	594.50	136,803.75	230.12
103(3)	Foundation Fill	0.03	cu.m.	15.00	29,950.04	1,996.67
103(6a)	Pipe Culvert and Drain Excavation	0.03	cu.m.	175.50	40,385.30	230.12
104(1a1)	Embankment from Roadway Excavation	9.84	cu.m.	50,492.50	11,501,141.33	227.78
105(1b)	Subgrade Preparation	0.46	sq.m.	33,342.00	532,755.15	15.98

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART D - SUBBASE AND BASE COURSE						
200	Aggregate Subbase Course	13.50	cu.m.	13,826.00	15,783,768.51	1,141.60
PART E - SURFACE COURSES						
300(1)	Gravel Surface Course	0.51	cu.m.	379.50	594,199.66	1,565.74
311(1c1)	Portland Cement Concrete Pavement, 230 mm. thk.	22.59	sq.m.	19,428.50	26,410,750.85	1,359.38
311(1e1)	Portland Cement Concrete Pavement, 280 mm. thk.	10.11	sq.m.	7,176.50	11,817,370.25	1,646.68
311(1a)	Portland Cement Concrete Pavement, 150 mm. thk.	3.48	sq.m.	4,521.50	4,067,939.53	899.69
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
404(1a)	Reinforcing Steel Bar, Grade 40	0.48	kg.	12,025.00	566,096.58	47.08
404(1b)	Reinforcing Steel Bar, Grade 60	0.74	kg.	17,569.50	864,008.96	49.18
405(1a3)	Structural Concrete, Class A	1.81	cu.m.	297.50	2,120,419.19	7,127.46
407(8)	Concrete Structures	0.04	cu.m.	15.50	43,229.90	2,789.03
500(1b3)	Reinforced Concrete Pipe (910mm dia), 36" dia	0.25	ln.m.	100.00	293,782.74	2,937.83
505(5)	Grouted Riprap, Class A	2.86	cu.m.	908.00	3,344,154.85	3,682.99
506(1)	Stone Masonry	0.35	cu.m.	94.00	413,381.52	4,397.68
PART H - MISCELLANEOUS STRUCTURES						
603(3a1)	Metal Guardrail (Metal Beam) Including Posts	3.36	ln.m.	900.00	3,929,284.85	4,365.87
603(3b1)	Metal Beam End Piece	0.04	each	30.00	47,701.61	1,590.05
611(1)	Trees (Furnishing & Transplanting)	4.44	each	1,282.00	5,186,687.08	4,045.78
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.56	sq.m.	901.00	657,673.44	729.94
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.16	sq.m.	226.00	181,974.29	805.20
620(1a)	Chevron Signs	1.27	each	123.00	1,488,818.18	12,104.21
622(1a)	Coconet Bio-Engineering Solutions, Coco-net (CN400)	2.22	sq.m.	18,897.50	2,596,213.13	137.38
622(1b)	Coconet Bio-Engineering Solutions, Coco-net (CN700)	0.45	sq.m.	2,964.00	530,443.55	178.96
622(2)	Coconet Bio-Engineering Solutions, Coco-logs/Fascine (CN200)	0.81	ln.m.	2,052.50	946,627.09	461.21
622(3)	Coconet Bio-Engineering Solutions, Vegetation	2.11	sq.m.	21,861.50	2,461,503.56	112.60
TOTAL		100.00			P 116,916,449.10	