

Department of Public Works and Highways

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

PROGRAM OF WORK

(For all types of Project)

NAME/LOCATION OF PROJECT : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO	Appropriation : P 100,000,000.00
	Source of Funds : CY-2017
PROJECT CATEGORY : NATIONAL ROAD	Issued Obligated Authority : _____
	Released : _____
PROJECT DESCRIPTION : Scope of Work : Road Upgrading (Unpaved to Paved) Road Width : 6.70 m. Roadbed Width : 12.00 m. Subbase Course : 0.30 mtrs thick Surface Course : 0.15 mtrs thick	Cal. Days to Complete : 198.00 Cal. Days
	Desirable Starting Date : Upon Approval
	Mode of Implementation : _____
NET LENGTH : Chainage 0000.00 - Chainage 3107.63 Exception: Chainage 0915.00 - Chainage 1220.00	
Net Length : 5.61 lane km Net Length : 2,802.63 ln.m. / 2.803 km	

MINIMUM EQUIPMENT REQUIREMENT :			TECHNICAL PERSONNEL REQUIRED :		
DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.
Dumptruck (10 Wheeler)	10	Water Pump	1	Project Engineer	1
Bullduzer	2	Portable Screed	1	Materials Engineer	1
Backhoe	3	Concrete Vibrator	2	Geometric Control	1
Road Grader	2	Concrete Cutter	2	Foreman	1
Road Roller	2	Bar Cutter	1	Materials Lab. Tech	1
Pay Loader	4	Bar Bender	1	Mason	10
Water Truck	2	Conc. Mixer (1-Bagger)	2	Carpenter	6
Water Tank	2	Plate Compactor	1	Laborers (Skilled)	10
Transit Mixer	4			Laborers (Unskilled)	20

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
102(2)	Surplus Common Excavation	11.931	cu.m.	53,252.00	8,850,335.96	166.20
103 (1)a	Structure Excavation	0.074	cu.m.	239.00	54,997.64	230.12
103(3)	Foundation Fill	0.018	cu.m.	13.50	13,308.95	985.85
103(6)a	Pipe Culvert and Drain Excavation	0.016	cu.m.	53.00	12,196.13	230.12
104(1)a1	Embankment from Roadway Excavation	9.229	cu.m.	30,200.33	6,845,938.55	226.68
105 (1)a	Subgrade Preparation	0.426	sq.m.	20,596.00	315,774.44	15.33
200 (1)	Aggregate Subbase Course	22.292	cu.m.	11,253.50	16,535,285.21	1,469.35
300 (1)	Gravel Surface Course	2.691	cu.m.	1,317.50	1,996,468.36	1,515.35
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	44.155	sq.m.	19,823.00	32,752,854.75	1,652.27
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	2.004	sq.m	1,639.50	1,486,821.88	906.88
404(1)a	Reinforcing Steel Bar, Grade 40	0.319	kg.	4,835.50	236,369.58	48.88
405 (1) a3	Structural Concrete, Class A	1.173	cu.m	119.50	870,187.96	7,281.91
500(1)b3	Pipe Culvert & Storm Drain	0.469	ln.m	90.00	348,253.03	3,869.48
505(2a)	Grouted Riprap, Class A	0.298	cu.m	62.00	220,821.72	3,561.64
506(1)	Stone Masonry	0.531	cu.m	90.50	393,857.92	4,352.02
611(1)	Trees (Furnishing and Transplanting)	0.510	each	93.00	378,179.39	4,066.45
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.670	sq.m	682.00	497,051.35	728.81
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.128	sq.m	117.00	94,636.74	808.86

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
500	RC Culvert Pipe, 610 mm	0.056	In.m	18.00	41,586.61	2,310.37
502(3)a	Catch Basin	0.019	each	6.00	13,809.78	2,301.63
502(4)a	Concrete Cover	0.008	each	6.00	5,804.21	967.37
503	Metal Frame & Grating	0.010	set	6.00	7,189.17	1,198.20
600(3)	Concrete Curb and Gutter	0.151	In.m	122.00	111,682.25	915.43
601	Sidewalk	0.196	sq.m.	244.00	145,231.15	595.21
605(2)z2	Regulatory Signs	0.020	units	2.00	14,546.40	7,273.20
A.1.1(3)	Const. of Field Office for the Engineer	0.550	LS	1.00	407,731.26	407,731.26
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	0.329	LS	1.00	244,223.32	244,223.32
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	0.427	L.S	1.00	316,992.00	316,992.00
B.5	Project Billboard	0.006	Unit	2.00	4,358.90	2,179.45
B.7	Construction Safety and Health Program	0.217	L.S	1.00	160,693.68	160,693.68
B.9	Mobilization and Demobilization	0.933	L.S	1.00	692,346.00	692,346.00
B.4(1)	Construction Survey and Staking	0.146	Km.	2.80	107,968.13	38,523.86
TOTAL		100.000			P 74,177,502.42	

Name of Project : **Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO**

Station Limits : Chainage 0000.00 - Chainage 3107.63
 Exception: Chainage 0915.00 - Chainage 1220.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1 Materials	50.35	50,350,949.99
A.2 Labor	1.31	1,314,612.63
A.3 Equipment Expenses	22.51	22,511,939.79
SUB-TOTAL (DIRECT COST)	74.18	P 74,177,502.42
B. INDIRECT COST (Per DO # 197 s. 2016)		
B.1 Overhead, Contingency & Misc. (10% Max. of D.C.)	7.28	7,276,324.74
B.2 Profit (8% Max. D.C.)	5.83	5,833,915.29
C. VAT (5% of D.C. and I.C. per D.O. # 197)	4.36	4,364,387.12
SUB-TOTAL (CONTRACT COST)	91.65	P 91,652,129.57
II. ESTIMATED GOVERNMENT EXPENDITURES		
1 Engineering and Administrative Overhead (3.5%)	3.50	3,500,000.00
2 Detailed Engineering (1%)		
3 Reserved for the Payment of RROW)	4.85	4,847,870.43
4 Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	P 100,000,000.00

Prepared by:

Submitted by:

JERALD R. BARRERA

Engineer II

LEONCIO B. SOLAMILLO

Chief, Construction Division

Recommending Approval:

APPROVED:

CAYAMOMBAO D. DIA

OIC-Assistant Regional Director

JORGE U. SEBASTIAN, JR., CESO III

Regional Director

APPROVED BUDGET FOR THE CONTRACT

Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Project Name and Location

Station Limits : Chainage 0000.00 - Chainage 3107.63 Exception: Chainage 0915.00 - Chainage 1220.00
 Length : 2,802.63 In.m.

Contract Duration : 198.00 Calendar Days

Item No.	Description	Quantity	Unit	Estimated Direct Cost	MARK-UP IN PERCENT			TOTAL MARK-UPS	VAT	TOTAL INDIRECT COST	TOTAL COST	TOTAL COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) = (5)X(8)	(10) = [(5)+(9)]*5%	(11) = (9) + (10)	(12) = (5) + (11)	(13) = (12) / (3)
PART A	FACILITIES FOR THE ENGINEER											
A.1.1(3)	Const. of Field Office for the Engineer	1.00	LS	407,731.26	10.00	8.00	18.00	73,391.63	24,056.14	97,447.77	505,179.03	505,179.03
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	1.00	LS	244,223.32	0.00	0.00	0.00	-	12,211.17	12,211.17	256,434.49	256,434.49
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	1.00	L.S	316,992.00	0.00	0.00	0.00	-	15,849.60	15,849.60	332,841.60	332,841.60
	TOTAL OF PART A			968,946.58				73,391.63	52,116.91	125,508.54	1,094,455.12	
PART B	OTHER GENERAL REQUIREMENTS											
B.5	Project Billboard	2.00	Unit	4,358.90	10.00	8.00	18.00	784.60	257.18	1,041.78	5,400.68	2,700.34
B.7	Construction Safety and Health Program	1.00	L.S	160,693.68	0.00	8.00	8.00	12,855.49	8,677.46	21,532.95	182,226.63	182,226.63
B.9	Mobilization and Demobilization	1.00	L.S	692,346.00	0.00	0.00	0.00	-	34,617.30	34,617.30	726,963.30	726,963.30
B.4(1)	Construction Survey and Staking	2.80	Km.	107,968.13	10.00	8.00	18.00	19,434.26	6,370.12	25,804.38	133,772.51	47,731.06
	TOTAL OF PART B			965,366.71				33,074.36	49,922.05	82,996.41	1,048,363.12	
PART C	EARTHWORKS											
102(2)	Surplus Common Excavation	53,252.00	cu.m.	8,850,335.96	10.00	8.00	18.00	1,593,060.47	522,169.82	2,115,230.29	10,965,566.25	205.92
103 (1)a	Structure Excavation	239.00	cu.m.	54,997.64	10.00	8.00	18.00	9,899.58	3,244.86	13,144.44	68,142.08	285.11
103(3)	Foundation Fill	13.50	cu.m.	13,308.95	10.00	8.00	18.00	2,395.61	785.23	3,180.84	16,489.79	1,221.47
103(6)a	Pipe Culvert and Drain Excavation	53.00	cu.m.	12,196.13	10.00	8.00	18.00	2,195.30	719.57	2,914.87	15,111.00	285.11
104(1)a1	Embankment from Roadway Excavation	30,200.33	cu.m.	6,845,938.55	10.00	8.00	18.00	1,232,268.94	403,910.37	1,636,179.31	8,482,117.87	280.86
105 (1)a	Subgrade Preparation	20,596.00	sq.m.	315,774.44	10.00	8.00	18.00	56,839.40	18,630.69	75,470.09	391,244.53	19.00
	TOTAL OF PART C			16,092,551.67				2,896,659.30	949,460.55	3,846,119.85	19,938,671.51	
PART D	SUBBASE AND BASE COURSE											
200 (1)	Aggregate Subbase Course	11,253.50	cu.m.	16,535,285.21	10.00	8.00	18.00	2,976,351.34	975,581.83	3,951,933.17	20,487,218.38	1,820.52
	TOTAL OF PART D			16,535,285.21				2,976,351.34	975,581.83	3,951,933.17	20,487,218.38	
PART E	SURFACE COURSES											
300 (1)	Gravel Surface Course	1,317.50	cu.m.	1,996,468.36	10.00	8.00	18.00	359,364.30	117,791.63	477,155.94	2,473,624.29	1,877.51
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	19,823.00	sq.m.	32,752,854.75	10.00	8.00	18.00	5,895,513.86	1,932,418.43	7,827,932.29	40,580,787.04	2,047.16
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	1,639.50	sq.m.	1,486,821.88	10.00	8.00	18.00	267,627.94	87,722.49	355,350.43	1,842,172.31	1,123.62
	TOTAL OF PART E			36,236,144.98				6,522,506.10	2,137,932.55	8,660,438.65	44,896,583.63	
PART F	BRIDGE CONSTRUCTION											
404(1)a	Reinforcing Steel Bar, Grade 40	4,835.50	kg.	236,369.58	10.00	8.00	18.00	42,546.52	13,945.81	56,492.33	292,861.91	60.56
405 (1) a3	Structural Concrete, Class A	119.50	cu.m	870,187.96	10.00	8.00	18.00	156,633.83	51,341.09	207,974.92	1,078,162.88	9,022.28
	TOTAL OF PART F			1,106,557.54				199,180.36	65,286.90	264,467.25	1,371,024.80	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES											
500	RC Culvert Pipe, 610 mm	18.00	In.m	41,586.61	10.00	8.00	18.00	7,485.59	2,453.61	9,939.20	51,525.81	2,862.55
500(1)b3	Pipe Culvert & Storm Drain	90.00	In.m	348,253.03	10.00	8.00	18.00	62,685.55	20,546.93	83,232.47	431,485.50	4,794.28
502(3)a	Catch Basin	6.00	each	13,809.78	10.00	8.00	18.00	2,485.76	814.78	3,300.54	17,110.32	2,851.72
502(4)a	Concrete Cover	6.00	each	5,804.21	10.00	8.00	18.00	1,044.76	342.45	1,387.21	7,191.42	1,198.57
503	Metal Frame & Grating	6.00	set	7,189.17	10.00	8.00	18.00	1,294.05	424.16	1,718.21	8,907.38	1,484.56
505(2a)	Grouted Riprap, Class A	62.00	cu.m	220,821.72	10.00	8.00	18.00	39,747.91	13,028.48	52,776.39	273,598.11	4,412.87
506(1)	Stone Masonry	90.50	cu.m	393,857.92	10.00	8.00	18.00	70,894.43	23,237.62	94,132.04	487,989.96	5,392.15
	TOTAL OF PART G			1,031,322.44				185,638.04	60,848.02	246,486.06	1,277,808.51	
PART H	MISCELLANEOUS STRUCTURES											
600(3)	Concrete Curb and Gutter	122.00	In.m	111,682.25	10.00	8.00	18.00	20,102.81	6,589.25	26,692.06	138,374.31	1,134.22
601	Sidewalk	244.00	sq.m.	145,231.15	10.00	8.00	18.00	26,141.61	8,568.64	34,710.25	179,941.40	737.46
605(2)z2	Regulatory Signs	2.00	units	14,546.40	10.00	8.00	18.00	2,618.35	858.24	3,476.59	18,022.99	9,011.49
611(1)	Trees (Furnishing and Transplanting)	93.00	each	378,179.39	10.00	8.00	18.00	68,072.29	22,312.58	90,384.87	468,564.26	5,038.33
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	682.00	sq.m	497,051.35	10.00	8.00	18.00	89,469.24	29,326.03	118,795.27	615,846.63	903.00
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	117.00	sq.m	94,636.74	10.00	8.00	18.00	17,034.61	5,583.57	22,618.18	117,254.92	1,002.18
	TOTAL OF PART H			1,241,327.28				223,438.91	73,238.31	296,677.22	1,538,004.51	
	TOTAL			74,177,502.42				13,110,240.03	3,388,805.29	17,474,627.15	91,652,129.57	

Prepared by:

Recommending Approval:

APPROVED:

BELEN A. SAPALLEDA
Head TWG, BAC

CAYAMOMBAO D. DIA
OIC-Assistant Regional Director

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

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 102(2) Surplus Common Excavation

Unit of Measurement : cu.m.

Output per hour : 60.00

Quantity : 53,252.00

Note: Use Two (2) gangs

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	55.47	611.92	33,943.71
b. Laborer	6	55.47	342.24	113,906.03
Sub-total for A				P 147,849.74
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Bullduzer	2	55.47	27,032.00	2,998,975.13
b. Payloader	2	55.47	13,864.00	1,538,095.27
c. Payloader	2	13.87	13,864.00	384,523.82
d. Dumptruck	6	55.47	11,360.00	3,780,892.00
Sub-total for B				P 8,702,486.22
C. Total (A+B)				P 8,850,335.96
D. Output/day	960.00	cu.m /day		
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
F. Direct Cost (C+E)				8,850,335.96
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		885,033.60
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		708,026.88
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		522,169.82
J. Total Unit Cost				205.92

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

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

Unit of Measurement : cu.m.

Output per hour : 20.00

Quantity : 239.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.49	611.92	914.06
b. Laborers	3	1.49	342.24	1,533.66
Sub-total for A			P	2,447.72
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Dumptruck	2	1.49	11,360.00	33,938.00
b. Backhoe	1	1.49	12,296.00	18,367.15
Minor Tools (10% of Labor)				244.77
Sub-total for B			P	52,549.92
C. Total (A+B)			P	54,997.64
D. Output/day 160.00 cu.m /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E			P	0.00
F. Direct Cost (C+E)				54,997.64
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		5,499.76
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		4,399.81
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		3,244.86
J. Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 103(3) Foundation Fill

Unit of Measurement : cu.m.

Output per hour : 1.25

Quantity : 13.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.35	611.92	826.09
b. Laborer	4	1.35	342.24	1,848.10
Sub-total for A				P 2,674.19
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Plate Compactor	1	1.35	984.00	1,328.40
b. Water Truck	1	0.01	19,600.00	264.60
c. Minor Tools (10% of Labor)				
Sub-total for B				P 1,593.00
C. Total (A+B)				P 4,267.19
D. Output/day 10.00 cu.m. /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Filling Materials	15.53	cu.m.	582.40	9,041.76
Sub-total for E				P 9,041.76
F. Direct Cost (C+E)				13,308.95
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	1,330.89
H. Contractor's Profit (CP)			8% per D.O 197 s 2016	1,064.72
I. Value Added Tax (VAT)			5% per D.O 197 s 2016	785.23
J. Total Unit Cost				1,221.47

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 103(6)a Pipe Culvert and Drain Excavation

Unit of Measurement : cu.m.

Output per hour : 20.00

Quantity : 53.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.33	611.92	202.70
	b. Laborer	3	0.33	342.24	340.10
Sub-total for A				P	542.80
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Dumptruck	2	0.33	11,360.00	7,526.00
	b. Backhoe	1	0.33	12,296.00	4,073.05
	Minor Tools (10% of Labor)				54.28
Sub-total for B				P	11,653.33
C.	Total (A+B)			P	12,196.13
D.	Output/day	160.00	cu.m /day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a.				
Sub-total for E				P	0.00
F.	Direct Cost (C+E)				12,196.13
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	1,219.61
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	975.69
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	719.57
J.	Total Unit Cost				285.11

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 104(1)a1 Embankment from Roadway Excavation

Unit of Measurement : cu.m.

Output per hour : 50.00

Quantity : 30,200.33

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
For Excavation Work				
a. Construction Foreman	1	62.67	611.92	38,346.39
b. Laborer	2	62.67	342.24	42,893.41
Spreading & Compaction				
a. Construction Foreman	1	75.50	611.92	46,200.46
b. Laborer	2	75.50	342.24	51,678.80
Sub-total for A				P 179,119.06
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
For Excavation Work				
a. Bullduzer	1	62.67	27,032.00	1,693,978.79
b. Payloader	1	62.67	13,864.00	868,797.05
c. Dumptruck	2	62.67	11,360.00	1,423,764.36
Spreading and Compaction				
a. Road Grader	1	75.50	17,384.00	1,312,506.34
b. Road Roller	1	75.50	13,216.00	997,818.90
c. Water Truck	1	18.88	19,600.00	369,954.04
Sub-total for B				P 6,666,819.49
C. Total (A+B)				P 6,845,938.55
D. Output/day 400.00 cu.m. /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
Sub-total for E				P 0.00
F. Direct Cost (C+E)				6,845,938.55
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		684,593.86
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		547,675.08
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		403,910.37
J. Total Unit Cost				280.86

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 105 (1)a Subgrade Preparation
 Unit of Measurement : sq.m.
 Output per hour : 300.00
 Quantity : 20,596.00

Note: with provision of turnout

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	8.58	611.92	5,251.29
	b. Laborer	2	8.58	342.24	5,873.98
Sub-total for A					P 11,125.27
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Road Grader	1	8.58	17,384.00	149,183.69
	b. Road Roller	1	8.58	13,216.00	113,415.31
	c. Water Truck	1	2.15	19,600.00	42,050.17
Sub-total for B					P 304,649.17
C.	Total (A+B)				P 315,774.44
D.	Output/day 2,400.00 sq.m./day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a.				
Sub-total for E					P 0.00
F.	Direct Cost (C+E)				315,774.44
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	31,577.44
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	25,261.96
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	18,630.69
J.	Total Unit Cost				19.00

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 200 (1) Aggregate Subbase Course

Unit of Measurement : cu.m.
Output per hour : 50.00
Quantity : 11,253.50

Note: with provision of turnout

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	28.13	611.92	17,215.60
	b. Laborer	2	28.13	342.24	19,256.99
Sub-total for A					P 36,472.59
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Road Grader	1	28.13	17,384.00	489,077.11
	b. Road Roller	1	28.13	13,216.00	371,815.64
	c. Water Truck	1	7.03	19,600.00	137,855.38
Sub-total for B					P 998,748.13
C.	Total (A+B)				P 1,035,220.72
D.	Output/day	400.00	cu.m.	/day	
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Aggregate Subbase Course (w/ Shrinkage of 15%)	12,941.53	cu.m.	1,197.70	15,500,064.49
Sub-total for E					P 15,500,064.49
F.	Direct Cost (C+E)				16,535,285.21
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	1,653,528.52
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	1,322,822.82
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	975,581.83
J.	Total Unit Cost				1,820.52

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO
Item No./Description : 300 (1) Gravel Surface Course
Unit of Measurement : cu.m.

Output per hour : 50.00
Quantity : 1,317.50

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	3.29	611.92	2,015.51
	b. Laborer	2	3.29	342.24	2,254.51
Sub-total for A					P 4,270.02
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Road Grader	1	3.29	17,384.00	57,258.55
	b. Road Roller	1	3.29	13,216.00	43,530.20
	c. Water Truck	1	0.82	19,600.00	16,139.38
Sub-total for B					P 116,928.13
C. Total (A+B)					P 121,198.14
D. Output/day 400.00 cu.m. /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Aggregate Surface Course (w/ shrinkage of 15%)	1,515.13	cu.m.	1,237.70	1,875,270.21
Sub-total for E					P 1,875,270.21
F. Direct Cost (C+E)					1,996,468.36
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	199,646.84	
H. Contractor's Profit (CP)			8% per D.O 197 s 2016	159,717.47	
I. Value Added Tax (VAT)			5% per D.O 197 s 2016	117,791.63	
J. Total Unit Cost					1,877.51

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 311(1)e1a Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick

Unit of Measurement : sq.m.

Output per hour : 57.70

Quantity

: 19,823.00

Note: with provision of turnout

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	42.94	611.92	26,278.36
	b. Skilled	4	42.94	443.20	76,131.31
	c. Laborer	12	42.94	342.24	176,366.30
Sub-total for A					P 278,775.97
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer	4	42.94	10,544.00	1,811,210.68
	b. Concrete Vibrator	2	42.94	730.00	62,698.40
	c. Batching Plant	1	42.94	14,076.00	604,481.26
	d. Pay Loader	1	42.94	13,864.00	595,377.11
	e. Concrete Screeder	1	42.94	4,360.00	187,236.31
	f. Water Truck	1	42.94	19,600.00	841,704.51
	g. Concrete Saw	1	42.94	261.04	11,210.13
	h. Bar Cutter	1	4.29	1,758.00	7,549.57
	Minor Tools (5% of labor)				13,938.80
Sub-total for B					P 4,135,406.75
C.	Total (A+B)				P 4,414,182.72
D.	Output/day	461.60	sq.m.	/day	
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	9,911.50	kg	40.00	396,460.00
	b. Curing Compound	5,748.67	lit	40.00	229,946.80
	c. Asphalt Sealant	3,369.91	lit	75.00	252,743.25
	d. Sand	3,052.74	cu.m	1,267.70	3,869,961.03
	e. Gravel	5,550.44	cu.m	1,357.70	7,535,832.39
	f. Cement	52,729.18	bag	293.18	15,459,014.77
	g. Concrete Saw	2.97	pc	8,000.00	23,787.60
	h. Pipe Sleeve, 2" dia.	154.62	l.m	133.00	20,564.38
	i. Grease/Tar	154.62	lit	21.00	3,247.01
	j. Steel Forms	9,118.58	lit	60.00	547,114.80
Sub-total for E					P 28,338,672.03
F.	Direct Cost (C+E)				32,752,854.75
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	3,275,285.48
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	2,620,228.38
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	1,932,418.43
J.	Total Unit Cost				2,047.16

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 311(1)a Portland Cement Concrete Pavement, 0.15m. Thick

Unit of Measurement : sq.m

Output per hour : 107.33

Quantity : 1,639.50

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.91	611.92	1,168.41
	b. Skilled	4	1.91	443.20	3,385.01
	c. Laborer	12	1.91	342.24	7,841.74
Sub-total for A				P	12,395.16
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer	4	1.91	10,544.00	80,531.48
	b. Concrete Vibrator	2	1.91	730.00	2,787.75
	c. Batching Plant	1	1.91	14,076.00	26,876.92
	d. Pay Loader	1	1.91	13,864.00	26,472.13
	e. Concrete Screeder	1	1.91	4,360.00	8,325.05
	f. Water Truck	1	1.91	19,600.00	37,424.53
	g. Concrete Saw	1	1.91	261.04	498.43
	h. Bar Cutter	1	0.19	1,758.00	335.68
	Minor Tools (5% of Labor)				9,162.60
Sub-total for B				P	192,414.57
C.	Total (A+B)				P 204,809.73
D.	Output/day 858.64 sq.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	541.04	kg	40.00	21,641.40
	b. Curing Compound	475.46	lit	40.00	19,018.20
	c. Asphalt Sealant	196.74	lit	75.00	14,755.50
	d. Steel Form	754.17	l.m	40.00	30,166.80
	e. Sand	135.26	cu.m	1,267.70	171,467.52
	f. Gravel	245.93	cu.m	1,357.70	333,892.37
	g. Cement	2,344.49	bag	293.18	687,350.50
	h. Concrete Saw	0.25	pc	8,000.00	1,967.40
	i. Pipe Sleeve, 1" dia.	12.79	l.m	133.00	1,700.82
	j. Grease/Tar	2.46	lit	21.00	51.64
Sub-total for E				P	1,282,012.15
F.	Direct Cost (C+E)				1,486,821.88
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	148,682.19
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	118,945.75
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	87,722.49
J.	Total Unit Cost				1,123.62

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 404(1)a Reinforcing Steel Bar, Grade 40

Unit of Measurement : kg.

Output per hour : 180.00

Quantity : 4,835.50

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	3.36	611.92	2,054.82
	b. Skilled	2	3.36	443.20	2,976.52
	c. Laborer	8	3.36	342.24	9,193.90
Sub-total for A				P	14,225.24
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	1.68	1,758.00	2,951.67
	b. Bar Bender	1	1.68	2,812.00	4,721.33
	c. Cargo Truck	1	0.50	6,264.00	3,155.16
Sub-total for B				P	10,828.16
C. Total (A+B)				P	25,053.40
D. Output/day 1,440.00 kg. /day					
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire	101.55	kgs	81.00	8,225.19
	b. Reinforcing Steel Bar, Grade 40	5,077.28	kgs	40.00	203,091.00
Sub-total for E				P	211,316.19
F. Direct Cost (C+E)					236,369.58
G. Overhead, Contingencies and Miscellaneous					10% per D.O 197 s 2016 23,636.96
H. Contractor's Profit (CP)					8% per D.O 197 s 2016 18,909.57
I. Value Added Tax (VAT)					5% per D.O 197 s 2016 13,945.81
J. Total Unit Cost					60.56

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 405 (1) a3 Structural Concrete, Class A

Unit of Measurement : cu.m

Output per hour : 1.40

Quantity : 119.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
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	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	10.67	611.92	6,528.97
	b. Skilled Laborer	4	10.67	443.20	18,915.14
	c. Laborer	8	10.67	342.24	29,212.63
	<i>Installation/Removal of Form Works</i>				
	a. Skilled Laborer	4	10.67	443.20	18,915.14
	b. Laborer	8	10.67	342.24	29,212.63
Sub-total for A					P 102,784.51
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	10.67	1,376.00	14,681.43
	b. Concrete Vibrator	1	10.67	972.00	10,370.89
	c. Water Truck	1	1.07	19,600.00	20,912.50
	Minor Tools (5% of Labor)				5,139.23
Sub-total for B					P 51,104.05
C.	Total (A+B)				P 153,888.56
D.	Output/day	11.20	cu.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Form Lumber	2,091.25	bd.ft	39.00	81,558.75
	b. Plywood	47.80	pc	1,220.00	58,316.00
	c. Assorted CW Nails	83.65	kg.	67.00	5,604.55
	d. Portland Cement	1,135.25	bag	293.18	332,829.88
	e. Sand	59.75	cu.m	1,267.70	75,745.08
	f. Gravel	119.50	cu.m	1,357.70	162,245.15
Sub-total for E					P 716,299.40
F.	Direct Cost (C+E)				870,187.96
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	87,018.80
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	69,615.04
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	51,341.09
J.	Total Unit Cost				9,022.28

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 500(1)b3 Pipe Culvert & Storm Drain

Unit of Measurement : In.m

Output per hour : 1.00

Quantity : 90.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
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A.	Labor				
	a. Construction Foreman	1	11.25	611.92	6,884.10
	b. Skilled Laborer	2	11.25	443.20	9,972.00
	c. Laborer	4	11.25	342.24	15,400.80
Sub-total for A				P	32,256.90
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Backhoe	1	5.63	12,296.00	69,165.00
	b. Plate Compactor	1	5.63	984.00	5,535.00
	Minor Tools (10% of Labor)				3,225.69
Sub-total for B				P	77,925.69
C.	Total (A+B)			P	110,182.59
D.	Output/day	8.00	ln.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	97.20	bag	293.18	28,496.86
	b. Sand	5.49	cu.m	1,267.70	6,959.67
	c. RC Pipes (910 mm dia.)	90.00	pc	2,089.00	188,010.00
	d. Sand Bedding	11.52	cu.m	1,267.70	14,603.90
Sub-total for E				P	238,070.44
F.	Direct Cost (C+E)				348,253.03
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	34,825.30
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	27,860.24
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	20,546.93
J.	Total Unit Cost				4,794.28

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 505(2a) Grouted Riprap, Class A

Unit of Measurement : cu.m

Output per hour : 1.25

Quantity : 62.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	6.20	611.92	3,793.90

	b. Skilled Laborer	2	6.20	443.20	5,495.68
	c. Laborer	8	6.20	342.24	16,975.10
Sub-total for A					P 26,264.69
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.20	1,376.00	8,531.20
	b. Water Truck	1	0.31	19,600.00	6,076.00
	Minor Tools (5% of Labor)				1,313.23
Sub-total for B					P 15,920.43
C.	Total (A+B)				P 42,185.12
D.	Output/day	10.00	cu.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	186.00	bag	293.18	54,531.03
	b. Sand	15.50	cu.m	1,267.70	19,649.35
	c. Gravel Fill	0.93	cu.m	1,357.70	1,262.66
	d. Weep Holes (PVC), 2" dia.	18.60	ln.m	133.00	2,473.80
	e. Filter Cloth	0.93	sq.m	160.00	148.80
	f. Boulders	65.10	cu.m	1,517.70	98,802.27
	Miscellaneous (1% of Materials)				1,768.68
Sub-total for E					P 178,636.59
F.	Direct Cost (C+E)				220,821.72
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	22,082.17
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	17,665.74
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	13,028.48
J.	Total Unit Cost				4,412.87

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 506(1) Stone Masonry

Unit of Measurement : cu.m

Output per hour : 1.56

Quantity : 90.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				

	a. Construction Foreman	1	7.24	611.92	4,430.30
	b. Skilled Laborer	2	7.24	443.20	6,417.54
	c. Laborer	8	7.24	342.24	19,822.54
Sub-total for A					P 30,670.38
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	7.24	1,376.00	9,962.24
	b. Water Truck	1	0.36	19,600.00	7,095.20
	c. Backhoe	1	0.72	12,296.00	8,902.30
	Minor Tools (10% of Labor)				3,067.04
Sub-total for B					P 29,026.78
C.	Total (A+B)				P 59,697.16
D.	Output/day	12.50	cu.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	497.75	bag	293.18	145,929.15
	b. Sand	27.15	cu.m	1,267.70	34,418.06
	c. Gravel Fill	1.81	cu.m	1,357.70	2,457.44
	d. Weep Holes (PVC)	27.15	ln.m	133.00	3,610.95
	e. Filter Cloth	1.36	sq.m	160.00	217.20
	f. Boulders	95.03	cu.m	1,517.70	144,219.44
	Miscellaneous (1% of Materials)				3,308.52
Sub-total for E					P 334,160.76
F.	Direct Cost (C+E)				393,857.92
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	39,385.79
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	31,508.63
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	23,237.62
J.	Total Unit Cost				5,392.15

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 611(1) Trees (Furnishing and Transplanting)

Unit of Measurement : each

Output per hour : 1.00

Quantity : 93.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	11.63	611.92	7,113.57

	b. Skilled Laborer	1	11.63	443.20	5,152.20
	c. Laborer	2	11.63	342.24	7,957.08
Sub-total for A					P 20,222.85
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck	1	11.63	6,264.00	72,819.00
	b. Backhoe	1	11.63	12,296.00	142,941.00
	c. Water Truck	1	5.81	19,600.00	113,925.00
	Minor Tools (10% of Labor)				2,022.29
Sub-total for B					P 331,707.29
C.	Total (A+B)				P 351,930.14
D.	Output/day	8.00	each	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Fertilizers	279.00	kg	27.00	7,533.00
	b. Bamboo Pole	279.00	pc	10.00	2,790.00
	c. Polyethylene	279.00	sq.m	40.00	11,160.00
	d. Tie Wire	23.25	kg	81.00	1,883.25
	e. Trees (Delivered at site)	93.00	each	31.00	2,883.00
Sub-total for E					P 26,249.25
F.	Direct Cost (C+E)				378,179.39
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	37,817.94
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	30,254.35
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	22,312.58
J.	Total Unit Cost				5,038.33

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : B.5 Project Billboard

Unit of Measurement : Unit

Output per hour :

Quantity : 2.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.25	611.92	152.98
	b. Carpenters	1	0.25	443.20	110.80

	c. Laborer	2	0.25	342.24	171.12
Sub-total for A				P	434.90
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	0.00
C.	Total (A+B)			P	434.90
D.	Output/day	0.00	Unit /day		
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Marine Plywood 3/16" thk. X 4' x 8'	2.00	pc	345.00	690.00
	b. Tarpaulin (4' x 8')	2.00	pc	800.00	1,600.00
	c. Assorted Sizes Lumber	100.00	bd. Ft	15.00	1,500.00
	d. Assorted Sizes CW Nails	2.00	kg	67.00	134.00
Sub-total for E				P	3,924.00
F.	Direct Cost (C+E)				4,358.90
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	435.89
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	348.71
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	257.18
J.	Total Unit Cost				2,700.34

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

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

Unit of Measurement : L.S

Output per hour :

Quantity : 1.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practitioner	1	99.00	611.92	60,580.08
	b. First Aider	1	198.00	443.20	87,753.60

Sub-total for A				P	148,333.68
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount	
B. Equipment, (2014 ACEL Rates)					
Sub-total for B				P	0.00
C. Total (A+B)				P	148,333.68
D. Output/day 0.00 L.S /day					
Name and Specifications	Quantity	Unit	Unit Cost	Amount	
E. Materials					
a. Pairs, Rubber Boots Men, Long with Steel Toe, Black	24.00	pair	400.00	9,600.00	
b. Pairs, Working Gloves (Maong Materials)	24.00	pair	15.00	360.00	
c. Pcs. Rain Coats (Rain Forced, Hip Length Small, Medium & Large)	24.00	pcs	100.00	2,400.00	
Sub-total for E				P	12,360.00
F. Direct Cost (C+E)					160,693.68
G. Overhead, Contingencies and Miscellaneous			per D.O 197 s 2016	0.00	
H. Contractor's Profit (CP)		8%	per D.O 197 s 2016	12,855.49	
I. Value Added Tax (VAT)		5%	per D.O 197 s 2016	8,677.46	
J. Total Unit Cost					182,226.63

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

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

Unit of Measurement : L.S

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount	
A. Labor					
Sub-total for A				P	0.00
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount	

B	Equipment, (2014 ACEL Rates)				
	a. Low Bed Trailer	2	3.00	34,043.00	204,258.00
	b. Water Truck	1	3.00	19,600.00	58,800.00
	c. Backhoe	1	3.00	12,296.00	36,888.00
	d. Payloader	2	3.00	13,864.00	83,184.00
	e. Dumptruck	4	3.00	11,360.00	136,320.00
	f. Bullduzer	1	3.00	27,032.00	81,096.00
	g. Road Roller	1	3.00	13,216.00	39,648.00
	h. Road Grader	1	3.00	17,384.00	52,152.00
	Sub-total for B				P 692,346.00
C.	Total (A+B)				P 692,346.00
D.	Output/day	0.00	L.S	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Sub-total for E				P 0.00
F.	Direct Cost (C+E)				692,346.00
G.	Overhead, Contingencies and Miscellaneous			per D.O 197 s 2016	0.00
H.	Contractor's Profit (CP)			per D.O 197 s 2016	0.00
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	34,617.30
J.	Total Unit Cost				726,963.30

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 502(3)a Catch Basin

Unit of Measurement : each

Output per hour : 1.00

Quantity : 6.00

(Note: for the Provision of turn-out)

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.50	611.92	917.88
b. Skilled Foreman	2	1.50	443.20	1,329.60
c. Laborer	8	1.50	342.24	4,106.88
Sub-total for A				P 6,354.36
Name and Capacity	No. of Equip	No. of Days	Daily Rate	Amount

	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Concrete Mixer (1 bagger)	1	0.25	1,376.00	344.00
	b. Water Truck	1	0.03	19,600.00	490.00
	Minor Tools, 10% of labor				635.44
	Sub-total for B			P	1,469.44
C.	Total (A+B)			P	7,823.80
D.	Output/day	4.00	each /day		
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	4.00	bag	293.18	1,172.71
	b. Fine Aggregates	0.25	cu.m	1,267.70	316.93
	c. Course Aggregates	0.50	cu.m	1,357.70	678.85
	d. Form Lumber	20.00	bd.ft	39.00	780.00
	e. # 16 GI Tie Wire	1.50	kls	81.00	121.50
	f. 14pc-10mm dia. Std. def. bars	51.80	kgs	55.00	2,849.00
	g. CW Nails	1.00	kls	67.00	67.00
	Sub-total for E			P	5,985.99
F.	Direct Cost (C+E)				13,809.78
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		1,380.98
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		1,104.78
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		814.78
J.	Total Unit Cost				2,851.72

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 502(4)a Concrete Cover

Unit of Measurement : each

Output per hour :

Quantity : 6.00

(Note: for the Provision of turn-out)

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.50	611.92	305.96
	b. Skilled Foreman	2	0.50	443.20	443.20
	c. Laborer	8	0.50	342.24	1,368.96
	Sub-total for A			P	2,118.12
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount

	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Concrete Mixer (1 Bagger)	1	0.13	1,376.00	172.00
	b. Water Truck	1	0.01	19,600.00	245.00
	c. Minor Tools, 10% of Laborer)				211.81
	Sub-total for B			P	628.81
C.	Total (A+B)			P	2,746.93
D.	Output/day	0.00	each /day		
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	1.00	bag	293.18	293.18
	b. Fine Aggregates	0.25	cu.m	1,267.70	316.93
	c. Coarse Aggregates	0.25	cu.m	1,357.70	339.43
	d. Form Lumber	20.00	bd.ft	39.00	780.00
	e. # 16 GI Tie Wire	1.00	kls	81.00	81.00
	f. 1-pc-10mm dia. Std. def. bars	22.20	kgs	55.00	1,221.00
	g. CW Nails	0.50	kls	44.00	22.00
	h. Water	0.25	cu.m	15.00	3.75
	Sub-total for E			P	3,057.28
F.	Direct Cost (C+E)				5,804.21
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		580.42
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		464.34
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		342.45
J.	Total Unit Cost				1,198.57

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 503 Metal Frame & Grating

Unit of Measurement : set

Output per hour :

Quantity : 6.00

(Note: for the Provision of turn-out)

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.75	611.92	458.94
	b. Skilled Foreman	1	0.75	443.20	332.40
	c. Laborer	2	0.75	342.24	513.36
	Sub-total for A			P	1,304.70
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount

B	Equipment, (2014 ACEL Rates)				
	a. Welding Machine Minor Tools, 10% of Laborer)	1	0.75	3,128.00	2,346.00 130.47
	Sub-total for B				P 2,476.47
C.	Total (A+B)				P 3,781.17
D.	Output/day	0.00	set	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Angle Bar (75mm X 75mm x 9 mm)	1.00	pc	3,040.00	3,040.00
	b. Flat Bar (25mm X 65 mm X 3 mm)	1.00	pc	170.00	170.00
	c. Weldind Rod	1.50	kg	132.00	198.00
	Sub-total for E				P 3,408.00
F.	Direct Cost (C+E)				7,189.17
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	718.92
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	575.13
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	424.16
J.	Total Unit Cost				1,484.56

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 600(3) Concrete Curb and Gutter

Unit of Measurement : In.m

Output per hour : 10.30

Quantity : 122.00

(Note: for the Provision of turn-out)

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.48	611.92	906.00
	b. Skilled Foreman	4	1.48	443.20	2,624.78
	c. Laborer	8	1.48	342.24	4,053.72
	Sub-total for A				P 7,584.49
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				

	a. Concrete Vibrator	1	1.48	730.00	1,080.83
	b. Bagger Mixer	1	1.48	1,376.00	2,037.28
	c. Water Truck	1	0.07	19,600.00	1,372.00
	Minor Tools, 10% of Labor				758.45
	Sub-total for B				P 5,248.56
C.	Total (A+B)				P 12,833.05
D.	Output/day	82.40	ln.m /day		
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	157.38	bag	293.18	46,140.29
	b. Fine Aggregates	8.54	cu.m	1,267.70	10,826.16
	c. Coarse Aggregates	17.08	cu.m	1,357.70	23,189.52
	d. Marine Plywood	7.32	pcs	393.00	2,876.76
	e. Form Lumber	349.84	bd.ft	39.00	13,643.76
	f. CW Nails	3.50	kls	67.00	234.50
	Miscellaneous (2% of Materials)				1,938.22
	Sub-total for E				P 98,849.21
F.	Direct Cost (C+E)				111,682.25
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	11,168.23
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	8,934.58
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	6,589.25
J.	Total Unit Cost				1,134.22

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 601 Sidewalk

Unit of Measurement : sq.m.

Output per hour : 20.00

Quantity : 244.00

(Note: for the Provision of turn-out)

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.53	611.92	933.18
	b. Skilled Foreman	4	1.53	443.20	2,703.52
	c. Laborer	12	1.53	342.24	6,262.99
	Sub-total for A				P 9,899.69
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				

	a. Concrete Vibrator	1	1.53	730.00	1,113.25
	b. Bagger Mixer	1	1.53	1,376.00	2,098.40
	c. Water Truck	1	0.19	19,600.00	3,724.00
	d. Concrete Saw	1	1.53	261.04	398.09
	Minor Tools, 5% of Labor				494.98
	Sub-total for B				P 7,828.72
C.	Total (A+B)				P 17,728.41
D.	Output/day	160.00	sq.m. /day		
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Curing Compound	70.76	lit	40.00	2,830.40
	b. Asphalt Sealant	29.28	lit	75.00	2,196.00
	c. Forms	112.24	l.m	39.00	4,377.36
	d. Sand	13.42	cu.m	1,267.70	17,012.53
	e. Gravel	24.40	cu.m	1,357.70	33,127.88
	f. Cement	231.80	bag	293.18	67,958.57
	Sub-total for E				P 127,502.74
F.	Direct Cost (C+E)				145,231.15
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	14,523.12
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	11,618.49
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	8,568.64
J.	Total Unit Cost				737.46

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 605(2)z2 Regulatory Signs

Unit of Measurement : units

Output per hour :

Quantity : 2.00

(Note: for the Provision of turn-out)

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.25	611.92	152.98
	b. Mason	1	0.25	443.20	110.80
	c. Laborer	2	0.25	342.24	171.12
	Sub-total for A				P 434.90
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Stake Truck	1	0.06	6,808.00	408.48

	Minor Tools, 10% of Labor				43.49	
	Sub-total for B				P	451.97
C.	Total (A+B)				P	886.87
D.	Output/day	0.00	units /day			
	Name and Specifications	Quantity	Unit	Unit Cost	Amount	
E.	Materials					
	a. Informative Signs	2.00	set	3,000.00	6,000.00	
	b. Portland Cement	1.00	bags	293.18	293.18	
	c. Fine Aggregates	0.25	cu.m	1,267.70	316.93	
	d. Coarse Aggregates	0.25	cu.m	1,357.70	339.43	
	e. Highway Traffic Sign post with Dowel	2.00	each	3,355.00	6,710.00	
	Sub-total for E				P	13,659.53
F.	Direct Cost (C+E)					14,546.40
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		1,454.64
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016		1,163.71
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016		858.24
J.	Total Unit Cost					9,011.49

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 500 RC Culvert Pipe, 610 mm

Unit of Measurement : ln.m

Output per hour : 2.25

Quantity : 18.00

Designation	No. of Person	No. of Days	Daily Rate	Amount	
A. Labor					
a. Construction Foreman	1	1.00	611.92	611.92	
b. Skilled Laborer	2	1.00	443.20	886.40	
c. Laborer	4	1.00	342.24	1,368.96	
Sub-total for A				P	2,867.28
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount	
B Equipment, (2014 ACEL Rates)					
a. Backhoe	1	0.50	12,296.00	6,148.00	
b. Plate Compactor	1	0.50	984.00	492.00	

	Minor Tools (10% of Labor)				286.73	
	Sub-total for B				P	6,926.73
C.	Total (A+B)				P	9,794.01
D.	Output/day	18.00	In.m	/day		
	Name and Specifications	Quantity	Unit	Unit Cost	Amount	
E.	Materials					
	a. Portland Cement	13.93	bag	293.18	4,084.55	
	b. Sand	0.79	cu.m	1,267.70	1,004.02	
	c. RC Pipes (610 mm dia.)	18.00	pc	1,372.00	24,696.00	
	d. Sand Bedding	1.58	cu.m	1,267.70	2,008.04	
	Sub-total for E				P	31,792.61
F.	Direct Cost (C+E)					41,586.61
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		4,158.66
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016		3,326.93
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016		2,453.61
J.	Total Unit Cost					2,862.55

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

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

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount	
A.	Labor					
	a. Construction Foreman	1	10.00	611.92	6,119.20	
	b. Masons	3	10.00	443.20	13,296.00	
	c. Carpenters	3	10.00	443.20	13,296.00	
	d. Laborers	6	10.00	342.24	20,534.40	
	Sub-total for A				P	53,245.60
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount	
B	Equipment, (2014 ACEL Rates)					
	a. Bagger Mixer	1	5.00	1,376.00	6,880.00	
	b. Water Truck	1	1.00	19,600.00	19,600.00	
	Minor Tools (10% of Labor)				5,324.56	
	Sub-total for B				P	31,804.56
C.	Total (A+B)				P	85,050.16
D.	Output/day	0.00	LS	/day		
	Name and Specifications	Quantity	Unit	Unit Cost	Amount	
E.	Materials					
	I. Earthworks (Excavation, Embankment, Bedding)					

	a. Gravel Bedding	3.50	cu.m	1,357.70	4,751.95
	b. Selected Fill	10.00	cu.m	582.40	5,824.00
	c. Soil Poisoning	2.50	lit	1,900.00	4,750.00
II.	Concrete Works (Footing, Columns, Beams & Slab on Grade)				
	a. Portland Cement	90.00	bag	293.18	26,385.98
	b. Crushed Gravel	20.00	cu.m	1,357.70	27,154.00
	c. Washed Sand	17.00	cu.m	1,267.70	21,550.90
III.	Reinforcing Bars(Footing Columns, Beams, & Slabs on Grade)				
	a. Deformed Round Bar, Grade 40	500.00	kg	40.00	20,000.00
	b. No. 16 GI Tie Wire	20.00	kg	81.00	1,620.00
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	520.00	9,360.00
	c. CWN, Assorted	5.00	kg	44.00	220.00
V.	Masonry Works (masonry walls & plastering)				
	a. CHB 6" thk	650.00	pc	18.00	11,700.00
	b. Portland Cement	50.00	bag	293.18	14,658.88
	c. Washed Sand	10.00	cu.m	1,267.70	12,677.00
	d. 10mm dia. X 6m RSB	75.00	kg	43.00	3,225.00
	e. No. 16 GI Tie Wire	2.50	kg	81.00	202.50
VI.	Doors and Windows				
	a. D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90mx2.1m	2.00	set	1,765.27	3,530.54
	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				179,154.75
	Sub-total for E				P 322,681.10
F.	Direct Cost (C+E)				407,731.26
G.	Overhead, Contingencies and Miscellaneous 10% per D.O 197 s 2016				40,773.13
H.	Contractor's Profit (CP) 8% per D.O 197 s 2016				32,618.50
I.	Value Added Tax (VAT) 5% per D.O 197 s 2016				24,056.14
J.	Total Unit Cost				505,179.03

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

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

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	16.00	611.92	
	b. Masons	3	16.00	443.20	
	c. Carpenters	3	16.00	443.20	
	d. Laborers	6	16.00	342.24	
	Sub-total for A				P 0.00
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Bagger Mixer	1	5.00	1,376.00	
	b. Water Truck	1	1.00	19,600.00	
	Minor Tools (10% of Labor)				
	Sub-total for B				P 0.00
C.	Total (A+B)				P 0.00
D.	Output/day 0.00 LS /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	VII.Steel Works				
	a. 65 x 65 x 6mm. L	300.00	kg	48.00	14,400.00
	b. 50 x 50 x 6mm. L	200.00	kg	48.00	9,600.00

c.	50 x 50 x 4mm. L	100.00	kg	48.00	4,800.00
d.	Purlins C- 150 x 50 x 3mm.	19.00	kg	45.00	855.00
e.	16mm dia. Cross bracing	32.00	kg	50.00	1,600.00
f.	16mm dia. Turn buckle	15.00	pc	123.00	1,845.00
g.	12mm thk base plate	22.00	kg	45.00	990.00
h.	10mm thk batten plate	15.00	kg	45.00	675.00
i.	10mm dia. Sag rod	7.50	kg	50.00	375.00
j.	20mm dia. X 350 mm anchor bolts	7.00	pc	60.00	420.00
k.	Welding Rod	12.50	kg	125.00	1,562.50
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"	500.00	pc	1.25	625.00
e.	Roof Sealant	2.00	lit	242.84	485.68
IX. Carpentry Works					
a.	Rough Lumber, sun dried tanguile	350.00	bd.ft	37.00	12,950.00
b.	Plywood, ordinary 1/4" x 4' x 8'	30.00	pc	350.00	10,500.00
c.	Finishing Nails	5.00	kg	74.00	370.00
d.	Common Wire Nails	10.00	kg	74.00	740.00
e.	Wood Preservative Brown	5.00	lit	900.00	4,500.00
Sub-Total for E					95,316.18
Sub-total for E					P 95,316.18
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					

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

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

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
X. Electrical Works				
a. 2 x 40w Flourescent lighting fixtures	5.00	set	1,500.00	7,500.00
b. Porcelain Ceiling Outlet w/ female	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	76.00	1,520.00
h. 15mm dia. PVC Coupling	25.00	pc	27.00	675.00
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	101.49	202.98
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	28.00	196.00
t. panel board (side main w/ braches)	2.00	set	3,000.00	6,000.00
XI. Plumbing Works				
a. Water Closet (include. Fitting & Accessories)	1.00	set	7,631.94	7,631.94
b. Lavatory (include fitting & Accessories)	1.00	set	5,000.00	5,000.00

c. 1/2" GI Pipe S-40	2.00	pc	292.00	584.00
d. 1/2" Water Faucet	2.00	pc	165.00	330.00
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				48,210.17
Sub-total for E				P 48,210.17
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				

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : A.1.1(11) Prov. Of Furniture, Equipment and Appliances for Field Engineer

Unit of Measurement : LS

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A.				
Sub-total for A				P 0.00
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B.				
Sub-total for B				P 0.00
C. Total (A+B)				P 0.00
D. Output/day 0.00 LS /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
<i>Office Equipment/Facilities & Supplies</i>				
a. Office Table, Executive type w/ chair	2.00	unit	7,000.00	14,000.00
b. 1/2" wooden office table	2.00	each	2,830.00	5,660.00
c. Drawing Table	2.00	unit	5,000.00	10,000.00
d. Electric Desk Fan	3.00	unit	1,370.00	4,110.00
e. Folding Beds, Good Quality	3.00	each	2,700.00	8,100.00
f. 6" sleeping beds w/ pillows and blanket	3.00	each	5,000.00	15,000.00
g. Double burner gas stove (Gasul)	1.00	unit	3,700.00	3,700.00
h. 10 cups Rice Cooker	1.00	unit	2,500.00	2,500.00
i. Aluminum Cookware	1.00	set	3,500.00	3,500.00
j. Plate, Glass, Spoon and fork	1.00	dozen	2,000.00	2,000.00
k. 6 seater dining table	1.00	each	2,800.00	2,800.00
l. Monoblock Backrest chair	2.00	dozen	2,500.00	5,000.00
m. Plastic Pail & Basin	2.00	pc	500.00	1,000.00
n. White Board	3.00	Unit	7,000.00	21,000.00
o. Bond Paper (Long)	20.00	ream	300.00	6,000.00
p. Bond Paper (Short)	20.00	ream	270.00	5,400.00
q. Yellow Pad	6.00	pad	35.00	210.00
r. White Board Marker	10.00	pc	75.00	750.00

s. Sign Pen (assorted color)	2.00	dozen	650.00	1,300.00
t. Ballpen (assorted color)	4.00	box	180.00	720.00
u. Mechanical Pencil	6.00	unit	350.00	2,100.00
v. Pencil Lead, No. 5	4.00	box	145.00	580.00
w. Puncher	1.00	Unit	253.32	253.32
x. Staple Pad w/ wire	2.00	Unit	275.00	550.00
y. Cutter Blade	2.00	box	240.00	480.00
z. Scotch Tape	10.00	roll	45.00	450.00
aa Brown Envelop	7.00	dozen	125.00	875.00
bb Folder, Long	7.00	dozen	85.00	595.00
cc Folder, Short	7.00	dozen	70.00	490.00
dd Data File Folder	12.00	pc	85.00	1,020.00
ee Desktop w/ complete accessories	1.00	unit	60,000.00	60,000.00
ff Printer (3in1)	1.00	unit	20,000.00	20,000.00
gg Camera	2.00	unit	15,000.00	30,000.00
<i>Lighting/Water Fixtures</i>				
a. Electric Bill	4.40	mons	1,200.00	5,280.00
b. Water Bill	4.40	mons	1,000.00	4,400.00
c. LPG Gasul (11 kg)	4.40	mons	1,000.00	4,400.00
Sub-Total for E				244,223.32
Sub-total for E				P 244,223.32
F. Direct Cost (C+E)				244,223.32
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 12,211.17
J. Total Unit Cost				256,434.49

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

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

Unit of Measurement : sq.m

Output per hour : 25.00

Quantity : 682.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	3.41	611.92	2,086.65
	b. Skilled Laborer	2	3.41	443.20	3,022.62
	c. Laborer	6	3.41	342.24	7,002.23
Sub-total for A				P	12,111.50
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck	1	3.41	9,696.00	33,063.36
	b. Applicator Machine	1	3.41	750.00	2,557.50
	c. Kneading Machine	1	3.41	1,500.00	5,115.00
	Minor Tools (10% of labor)				
Sub-total for B				P	40,735.86

C.	Total (A+B)				P	52,847.36
D.	Output/day	200.00	sq.m	/day		
	Name and Specifications	Quantity	Unit	Unit Cost		Amount
E.	Materials					
	a. Thermoplastic Paint (white)	221.65	bag	1,585.00		351,315.25
	b. Glass Beads	22.51	bag	2,500.00		56,265.00
	c. Primer	81.84	liter	180.00		14,731.20
	d. LPG (50 kg.)	2.73	cyl	90.00		245.52
	e. LPG (12 kg.)	1.36	cyl	50.00		68.20
	f. Calsumine	85.25	kg	5.00		426.25
	Miscellaneous (5% of Materials)					21,152.57
	Sub-total for E				P	444,203.99
F.	Direct Cost (C+E)					497,051.35
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016		49,705.14
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016		39,764.11
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016		29,326.03
J.	Total Unit Cost					903.00

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : 612(2) ReflectORIZED Thermoplastic Pavement Markings (Yellow)

Unit of Measurement : sq.m

Output per hour : 25.00

Quantity : 117.00

Designation	No. of Person	No. of Days	Daily Rate	Amount	
A. Labor					
a. Construction Foreman	1	0.59	611.92	357.97	
b. Skilled Laborer	2	0.59	443.20	518.54	
c. Laborer	6	0.59	342.24	1,201.26	
Sub-total for A				P 2,077.78	
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount	
B Equipment, (2014 ACEL Rates)					
a. Cargo Truck/Delivery Truck	1	0.59	9,696.00	5,672.16	
b. Applicator Machine	1	0.59	750.00	438.75	
c. Kneading Machine	1	0.59	1,500.00	877.50	
Minor Tools (10% of labor)					
Sub-total for B				P 6,988.41	
C.	Total (A+B)				P 9,066.19

D.	Output/day	200.00	sq.m	/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount	
E.	Materials					
	a. Thermoplastic Paint (yellow)	38.03	bag	1,800.00	68,445.00	
	b. Glass Beads	3.86	bag	2,500.00	9,652.50	
	c. Primer	14.04	liter	233.00	3,271.32	
	d. LPG (50 kg.)	0.47	cyl	90.00	42.12	
	e. LPG (12 kg.)	0.23	cyl	50.00	11.70	
	f. Calsumine	14.63	kg	5.00	73.13	
	Miscellaneous (5% of Materials)				4,074.79	
Sub-total for E					P	85,570.55
F.	Direct Cost (C+E)				94,636.74	
G.	Overhead, Contingencies and Miscellaneous		10%	per D.O 197 s 2016	9,463.67	
H.	Contractor's Profit (CP)		8%	per D.O 197 s 2016	7,570.94	
I.	Value Added Tax (VAT)		5%	per D.O 197 s 2016	5,583.57	
J.	Total Unit Cost				1,002.18	

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : B.4(1) Construction Survey and Staking

Unit of Measurement : Km.

Output per hour : 0.04

Quantity : 2.80

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor (For Field Works)				
	a. Geodetic Engineer	1	9.34	833.31	7,784.87
	b. Skilled Laborer	3	9.34	443.20	12,421.26
	c. Laborer	3	9.34	342.24	9,591.72
	(For Office Works)				
	a. Geodetic Engineer	1	28.03	833.31	23,354.60
	b. Skilled Laborer	2	28.03	443.20	24,842.51
Sub-total for A					P 77,994.95
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories	1	9.34	800.00	7,473.68
	Minor Tools (10% of labor)				7,799.50
Sub-total for B					P 15,273.18
C.	Total (A+B)				P 93,268.13
D.	Output/day	0.30	Km.	/day	

Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Standard Stake Plan (800 mm x 910 mm)	35.00	pcs	200.00	7,000.00
	b. Blue Printing	175.00	pcs	40.00	7,000.00
	Miscellaneous (5% of Materials)				700.00
Sub-total for E				P	14,700.00
F.	Direct Cost (C+E)				107,968.13
G.	Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		10,796.81
H.	Contractor's Profit (CP)		8% per D.O 197 s 2016		8,637.45
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		6,370.12
J.	Total Unit Cost				47,731.06

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Upgrading (Gravel to Paved) of Zamboanga del Sur Coastal Road, Zamboanga del Sur 2nd DEO

Item No./Description : A.1.2(5) Operation & Maintenance of Gov't. Service Vehicle

Unit of Measurement : L.S

Output per hour :

Quantity : 1.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Service Driver	1	198.00	443.20	87,753.60
Sub-total for A				P	87,753.60
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	0.00
C.	Total (A+B)			P	87,753.60
D.	Output/day	0.00 L.S	/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount

E.	Materials				
	a. Liters, Diesel Fuel	1,980.00	liters	35.00	69,300.00
	b. Engine Oil & Lubricants	1.00	ls	21,938.40	21,938.40
	c. Tires	4.00	pcs	9,500.00	38,000.00
	d. Spare parts etc.	1.00	ls	100,000.00	100,000.00
	Sub-total for E			P	229,238.40
F.	Direct Cost (C+E)				316,992.00
G.	Overhead, Contingencies and Miscellaneous		0% per D.O 197 s 2016		0.00
H.	Contractor's Profit (CP)		0% per D.O 197 s 2016		0.00
I.	Value Added Tax (VAT)		5% per D.O 197 s 2016		15,849.60
J.	Total Unit Cost				332,841.60

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4.4

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37.37