

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 : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur	Appropriation : P 98,000,000.00
	Source of Funds : CY-2017
PROJECT CATEGORY : NATIONAL ROAD	Issued Obligated Authority : _____
	Released : _____
PROJECT DESCRIPTION : Scope of Work : Road Concreting 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 : 180.00 Cal. Days
	Desirable Starting Date : Upon Approval
	Mode of Implementation : _____
	NET LENGTH : Sta. 0+000.00 - Sta. 3+160.00
	Net Length : 6.3200 lane km. Net Length : 3,160.00 ln.m. / 3.160 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	8.918	cu.m.	48,084.00	6,819,156.68	141.82
103 (1)a	Structure Excavation	0.156	cu.m.	457.00	119,466.95	261.42
103(3)	Foundation Fill	0.009	cu.m.	7.00	6,900.94	985.85
103(6)a	Pipe Culvert and Drain Excavation	0.027	cu.m.	78.00	20,390.42	261.42
104(1)a1	Embankment (from excavation)	3.242	cu.m.	10,935.00	2,478,792.06	226.68
105 (1)a	Subgrade Preparation	0.598	sq.m.	29,805.00	456,965.29	15.33
200 (1)	Aggregate Subbase Course	22.900	cu.m.	12,565.00	17,509,949.47	1,393.55
300 (1)	Aggregate Surface Course	2.945	cu.m.	1,564.00	2,251,455.42	1,439.55
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	48.769	sq.m.	23,579.00	37,289,093.16	1,581.45
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	5.012	sq.m	4,411.00	3,832,545.85	868.86
404 (1)a	Reinforcing Steel Bar, Grade 60	1.520	kg.	22,217.30	1,161,919.74	52.30
405 (1) a3	Structural Concrete, Class A	2.299	cu.m	250.00	1,758,076.01	7,032.30
407(8)	Lean Concrete	0.179	cu.m	17.10	136,917.96	8,006.90
500(1)b3	Reinforced Concrete Culvert Pipe	0.208	ln.m	48.00	159,129.87	3,315.21
505(2)a	Grouted Riprap, Class A	0.054	cu.m	12.00	41,112.29	3,426.02
506 (1)	Stone Masonry	0.150	cu.m	27.50	114,748.68	4,172.68
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.744	sq.m	781.00	569,203.97	728.81
A.1.1(3)	Construction of Field Office for the Engineer	0.528	LS	1.00	404,003.90	404,003.90
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	0.318	LS	1.00	242,943.32	242,943.32
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	0.389	L.S	1.00	297,120.00	297,120.00
B.5	Project Billboard	0.007	Unit	2.00	5,100.90	2,550.45
B.7	Construction Safety and Health Program	0.193	L.S	1.00	147,208.80	147,208.80
B.9	Mobilization and Demobilization	0.704	L.S	1.00	538,476.00	538,476.00
B.4(1)	Construction Survey and Staking	0.132	Km.	3.16	100,550.40	31,819.75
TOTAL		100.000			P 76,461,228.05	

Name of Project : **Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur**

Station Limits : Sta. 0+000.00 - Sta. 3+160.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1 Materials	59.12	57,934,143.19
A.2 Labor	1.29	1,262,782.03
A.3 Equipment Expenses	17.62	17,264,302.83
SUB-TOTAL (DIRECT COST)	78.02	P 76,461,228.05
B. INDIRECT COST (Per DO # 197 s. 2016)		
B.1 Overhead, Contingency & Misc. (10% Max. of D.C.)	7.68	7,523,547.99
B.2 Profit (8% Max. D.C.)	6.15	6,030,615.10
C. VAT (5% of D.C. and I.C. per D.O. # 197)	4.59	4,500,769.56
SUB-TOTAL (CONTRACT COST)	96.45	P 94,516,160.70
II. ESTIMATED GOVERNMENT EXPENDITURES		
1 Engineering and Administrative Overhead (3.5%)	3.50	3,430,000.00
2 Detailed Engineering (1%)		
3 Reserved for the Payment of RROW)	0.05	53,839.30
4 Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	P 98,000,000.00

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

Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Project Name and Location

Station Limits : Sta. 0+000.00 - Sta. 3+160.00

Length : 3,160.00 In.m.

Contract Duration : 180.00 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)	Construction of Field Office for the Engineer	1.00	LS	404,003.90	10.00	8.00	18.00	72,720.70	23,836.23	96,556.93	500,560.83	500,560.83
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	1.00	LS	242,943.32	0.00	0.00	0.00	-	12,147.17	12,147.17	255,090.49	255,090.49
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	1.00	LS	297,120.00	0.00	0.00	0.00	-	14,856.00	14,856.00	311,976.00	311,976.00
	TOTAL OF PART A			944,067.22				72,720.70	50,839.40	123,560.10	1,067,627.31	
PART B	OTHER GENERAL REQUIREMENTS											
B.5	Project Billboard	2.00	Unit	5,100.90	10.00	8.00	18.00	918.16	300.95	1,219.12	6,320.02	3,160.01
B.7	Construction Safety and Health Program	1.00	LS	147,208.80	0.00	8.00	8.00	11,776.70	7,949.28	19,725.98	166,934.78	166,934.78
B.9	Mobilization and Demobilization	1.00	LS	538,476.00	0.00	0.00	0.00	-	26,923.80	26,923.80	565,399.80	565,399.80
B.4(1)	Construction Survey and Staking	3.16	Km.	100,550.40	10.00	8.00	18.00	18,099.07	5,932.47	24,031.54	124,581.94	39,424.66
	TOTAL OF PART B			791,336.10				30,793.94	41,106.50	71,900.44	863,236.53	
PART C	EARTHWORKS											
102(2)	Surplus Common Excavation	48,084.00	cu.m.	6,819,156.68	10.00	8.00	18.00	1,227,448.20	402,330.24	1,629,778.45	8,448,935.12	175.71
103 (1)a	Structure Excavation	457.00	cu.m.	119,466.95	10.00	8.00	18.00	21,504.05	7,048.55	28,552.60	148,019.55	323.89
103(3)	Foundation Fill	7.00	cu.m.	6,900.94	10.00	8.00	18.00	1,242.17	407.16	1,649.32	8,550.26	1,221.47
103(6)a	Pipe Culvert and Drain Excavation	78.00	cu.m.	20,390.42	10.00	8.00	18.00	3,670.28	1,203.03	4,873.31	25,263.73	323.89
104(1)a1	Embankment (from excavation)	10,935.00	cu.m.	2,478,792.06	10.00	8.00	18.00	446,182.57	146,248.73	592,431.30	3,071,223.36	280.86
105 (1)a	Subgrade Preparation	29,805.00	sq.m.	456,965.29	10.00	8.00	18.00	82,253.75	26,960.95	109,214.70	566,180.00	19.00
	TOTAL OF PART C			9,901,672.33				1,782,301.02	584,198.67	2,366,499.69	12,268,172.02	
PART D	SUBBASE AND BASE COURSE											
200 (1)	Aggregate Subbase Course	12,565.00	cu.m.	17,509,949.47	10.00	8.00	18.00	3,151,790.90	1,033,087.02	4,184,877.92	21,694,827.39	1,726.61
	TOTAL OF PART D			17,509,949.47				3,151,790.90	1,033,087.02	4,184,877.92	21,694,827.39	
PART E	SURFACE COURSES											
300 (1)	Aggregate Surface Course	1,564.00	cu.m.	2,251,455.42	10.00	8.00	18.00	405,261.98	132,835.87	538,097.84	2,789,553.26	1,783.60
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	23,579.00	sq.m.	37,289,093.16	10.00	8.00	18.00	6,712,036.77	2,200,056.50	8,912,093.27	46,201,186.42	1,959.42
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	4,411.00	sq.m	3,832,545.85	10.00	8.00	18.00	689,858.25	226,120.21	915,978.46	4,748,524.31	1,076.52
	TOTAL OF PART E			43,373,094.43				7,807,157.00	2,559,012.57	10,366,169.57	53,739,264.00	
PART F	BRIDGE STRUCTURES											
404 (1)a	Reinforcing Steel Bar, Grade 60	22,217.30	kg.	1,161,919.74	10.00	8.00	18.00	209,145.55	68,553.26	277,698.82	1,439,618.56	64.80
405 (1) a3	Structural Concrete, Class A	250.00	cu.m	1,758,076.01	10.00	8.00	18.00	316,453.68	103,726.48	420,180.17	2,178,256.18	8,713.02
407(8)	Lean Concrete	17.10	cu.m	136,917.96	10.00	8.00	18.00	24,645.23	8,078.16	32,723.39	169,641.35	9,920.55
	TOTAL OF PART F			3,056,913.71				550,244.47	180,357.91	730,602.38	3,787,516.08	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES											
500(1)b3	Reinforced Concrete Culvert Pipe	48.00	In.m	159,129.87	10.00	8.00	18.00	28,643.38	9,388.66	38,032.04	197,161.90	4,107.54
505(2)a	Grouted Riprap, Class A	12.00	cu.m	41,112.29	10.00	8.00	18.00	7,400.21	2,425.63	9,825.84	50,938.13	4,244.84
506 (1)	Stone Masonry	27.50	cu.m	114,748.68	10.00	8.00	18.00	20,654.76	6,770.17	27,424.93	142,173.61	5,169.95
	TOTAL OF PART G			314,990.84				56,698.35	18,584.46	75,282.81	390,273.65	
PART H	MISCELLANEOUS STRUCTURES											
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	781.00	sq.m	569,203.97	10.00	8.00	18.00	102,456.71	33,583.03	136,039.75	705,243.72	903.00
	TOTAL OF PART H			569,203.97				102,456.71	33,583.03	136,039.75	705,243.72	
	TOTAL			76,461,228.05				13,554,163.09	3,467,682.54	18,054,932.65	94,516,160.70	

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 : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : cu.m.

Output per hour : 60.00

Quantity : 48,084.0

Note: Use Two(2) gangs

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	50.09	611.92	30,649.54
b. Laborer	4	50.09	342.24	68,567.78
Sub-total for A				P 99,217.33
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Dumptruck	4	50.09	11,360.00	2,275,976.00
b. Bullduzer	2	50.09	27,032.00	2,707,930.60
c. Payloader	2	50.09	13,864.00	1,388,826.20
d. Payloader	2	12.52	13,864.00	347,206.55
Sub-total for B				P 6,719,939.35
C. Total (A+B)				P 6,819,156.68
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)				6,819,156.68
G. Overhead, Contingencies and Miscellaneous		10%	per D.O 197 s 2016	681,915.67
H. Contractor's Profit (CP)		8%	per D.O 197 s 2016	545,532.53
I. Value Added Tax (VAT)		5%	per D.O 197 s 2016	402,330.24
J. Total Unit Cost				175.71

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : cu.m.

Output per hour : 20.00

Quantity : 457.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	2.86	611.92	1,747.80
b. Laborers	3	2.86	342.24	2,932.57
Sub-total for A			P	4,680.37
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B Equipment, (2014 ACEL Rates)				
a. Dumptruck	2	2.86	13,864.00	79,198.10
b. Backhoe	1	2.86	12,296.00	35,120.45
Minor Tools (10% of Labor)				468.04
Sub-total for B			P	114,786.59
C. Total (A+B)			P	119,466.95
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)				119,466.95
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		11,946.70
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		9,557.36
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		7,048.55
J. Total Unit Cost				323.89

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : 103(3) Foundation Fill
 Unit of Measurement : cu.m.
 Output per hour : 1.25
 Quantity : 7.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.70	611.92	428.34
b. Laborer	4	0.70	342.24	958.27
Sub-total for A			P	1,386.62
Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B. Equipment, (2014 ACEL Rates)				
a. Plate Compactor	1	0.70	984.00	688.80
b. Water Truck	1	0.01	19,600.00	137.20
c. Minor Tools (10% of Labor)				
Sub-total for B			P	826.00
C. Total (A+B)			P	2,212.62
D. Output/day 10.00 cu.m. /day				
Name and Specifications	Quantity	Unit	Unit Cost	Amount
E. Materials				
a. Filling Materials	8.05	cu.m.	582.40	4,688.32
Sub-total for E			P	4,688.32
F. Direct Cost (C+E)				6,900.94
G. Overhead, Contingencies and Miscellaneous		10% per D.O 197 s 2016		690.09
H. Contractor's Profit (CP)		8% per D.O 197 s 2016		552.07
I. Value Added Tax (VAT)		5% per D.O 197 s 2016		407.16
J. Total Unit Cost				1,221.47

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : 103(6)a Pipe Culvert and Drain Excavation
 Unit of Measurement : cu.m.
 Output per hour : 20.00
 Quantity : 78.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.49	611.92	298.31
	b. Laborer	3	0.49	342.24	500.53
Sub-total for A				P	798.84
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Dumptruck	2	0.49	13,864.00	13,517.40
	b. Backhoe	1	0.49	12,296.00	5,994.30
	Minor Tools (10% of Labor)				79.88
Sub-total for B				P	19,591.58
C. Total (A+B)				P	20,390.42
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)					20,390.42
G. Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	2,039.04	
H. Contractor's Profit (CP)			8% per D.O 197 s 2016	1,631.23	
I. Value Added Tax (VAT)			5% per D.O 197 s 2016	1,203.03	
J. Total Unit Cost					323.89

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : cu.m.

Output per hour : 50.00

Quantity : 10,935.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	<i>For Excavation Work</i>				
	a. Construction Foreman	1	22.69	611.92	13,884.54
	b. Laborer	2	22.69	342.24	15,530.94
	<i>Spreading & Compaction</i>				
	a. Construction Foreman	1	27.34	611.92	16,728.36
	b. Laborer	2	27.34	342.24	18,711.97
Sub-total for A				P	64,855.81
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	<i>For Excavation Work</i>				
	a. Bullduzer	1	22.69	27,032.00	613,359.46
	b. Payloader	1	22.69	13,864.00	314,575.89
	c. Dumptruck	2	22.69	11,360.00	515,519.64
	<i>Spreading and Compaction</i>				
	a. Road Grader	1	27.34	17,384.00	475,235.10
	b. Road Roller	1	27.34	13,216.00	361,292.40
	c. Water Truck	1	6.83	19,600.00	133,953.75
Sub-total for B				P	2,413,936.24
C.	Total (A+B)			P	2,478,792.06
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)				2,478,792.06
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	247,879.21
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	198,303.36
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	146,248.73
J.	Total Unit Cost				280.86

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : 105 (1)a Subgrade Preparation
Unit of Measurement : sq.m.
Output per hour : 300.00
Quantity : 29,805.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	12.42	611.92	7,599.28
	b. Laborer	2	12.42	342.24	8,500.39
Sub-total for A					P 16,099.67
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Road Grader	1	12.42	17,384.00	215,887.55
	b. Road Roller	1	12.42	13,216.00	164,126.20
	c. Water Truck	1	3.10	19,600.00	60,851.88
Sub-total for B					P 440,865.63
C.	Total (A+B)				P 456,965.29
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)				456,965.29
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	45,696.53
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	36,557.22
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	26,960.95
J.	Total Unit Cost				19.00

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : cu.m.
Output per hour : 50.00
Quantity : 12,565.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	31.41	611.92	19,221.94
	b. Laborer	2	31.41	342.24	21,501.23
Sub-total for A					P 40,723.17
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Road Grader	1	31.41	17,384.00	546,074.90
	b. Road Roller	1	31.41	13,216.00	415,147.60
	c. Water Truck	1	7.85	19,600.00	153,921.25
Sub-total for B					P 1,115,143.75
C.	Total (A+B)				P 1,155,866.92
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%)	14,449.75	cu.m.	1,131.79	16,354,082.55
Sub-total for E					P 16,354,082.55
F.	Direct Cost (C+E)				17,509,949.47
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	1,750,994.95
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	1,400,795.96
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	1,033,087.02
J.	Total Unit Cost				1,726.61

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : 300 (1) Aggregate Surface Course

Unit of Measurement : cu.m.

Output per hour : 50.00
Quantity : 1,564.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	3.91	611.92	2,392.61
	b. Laborer	2	3.91	342.24	2,676.32
Sub-total for A					P 5,068.92
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Road Grader	1	3.91	17,384.00	67,971.44
	b. Road Roller	1	3.91	13,216.00	51,674.56
	c. Water Truck	1	0.98	19,600.00	19,159.00
Sub-total for B					P 138,805.00
C.	Total (A+B)				P 143,873.92
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%)	1,798.60	cu.m.	1,171.79	2,107,581.49
Sub-total for E					P 2,107,581.49
F.	Direct Cost (C+E)				2,251,455.42
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	225,145.54
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	180,116.43
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	132,835.87
J.	Total Unit Cost				1,783.60

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

: 23,579.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	51.08	611.92	31,257.50
	b. Skilled	4	51.08	443.20	90,556.44
	c. Laborer	12	51.08	342.24	209,783.63
Sub-total for A					P 331,597.57
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer	4	51.08	10,544.00	2,154,393.21
	b. Concrete Vibrator	2	51.08	730.00	74,578.29
	c. Batching Plant	1	51.08	14,076.00	719,016.47
	d. Pay Loader	1	51.08	13,864.00	708,187.30
	e. Concrete Screeder	1	51.08	4,360.00	222,713.26
	f. Water Truck	1	51.08	19,600.00	1,001,188.04
	g. Concrete Saw	1	51.08	261.04	13,334.19
	h. Bar Cutter	1	5.11	1,758.00	8,980.04
	Minor Tools (5% of labor)				16,579.88
Sub-total for B					P 4,918,970.68
C.	Total (A+B)				P 5,250,568.25
D.	Output/day	461.60	sq.m.	/day	
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	11,789.50	kg	40.00	471,580.00
	b. Curing Compound	6,837.91	lit	40.00	273,516.40
	c. Asphalt Sealant	4,008.43	lit	75.00	300,632.25
	d. Sand	3,631.17	cu.m	1,201.79	4,363,898.99
	e. Gravel	6,602.12	cu.m	1,291.79	8,528,552.59
	f. Cement	62,720.14	bag	277.31	17,392,946.39
	g. Concrete Saw	3.54	pc	8,000.00	28,294.80
	h. Pipe Sleeve, 2" dia.	183.92	l.m	133.00	24,460.85
	i. Grease/Tar	183.92	lit	21.00	3,862.24
	j. Steel Forms	10,846.34	lit	60.00	650,780.40
Sub-total for E					P 32,038,524.91
F.	Direct Cost (C+E)				37,289,093.16
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	3,728,909.32
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	2,983,127.45
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	2,200,056.50
J.	Total Unit Cost				1,959.42

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : sq.m

Output per hour : 107.33

Quantity : 4,411.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	5.14	611.92	3,143.55
	b. Skilled	4	5.14	443.20	9,107.22
	c. Laborer	12	5.14	342.24	21,097.84
Sub-total for A				P	33,348.61
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer	4	5.14	10,544.00	216,666.28
	b. Concrete Vibrator	2	5.14	730.00	7,500.30
	c. Batching Plant	1	5.14	14,076.00	72,311.14
	d. Pay Loader	1	5.14	13,864.00	71,222.05
	e. Concrete Screeder	1	5.14	4,360.00	22,398.16
	f. Water Truck	1	5.14	19,600.00	100,689.00
	g. Concrete Saw	1	5.14	261.04	1,341.01
	h. Bar Cutter	1	0.51	1,758.00	903.12
	Minor Tools (5% of Labor)				24,651.55
Sub-total for B				P	517,682.62
C.	Total (A+B)				P 551,031.23
D.	Output/day 858.64 sq.m /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	1,455.63	kg	40.00	58,225.20
	b. Curing Compound	1,279.19	lit	40.00	51,167.60
	c. Asphalt Sealant	529.32	lit	75.00	39,699.00
	d. Steel Form	2,029.06	l.m	40.00	81,162.40
	e. Sand	363.91	cu.m	1,201.79	437,340.39
	f. Gravel	661.65	cu.m	1,291.79	854,712.85
	g. Cement	6,307.73	bag	277.31	1,749,199.06
	h. Concrete Saw	0.66	pc	8,000.00	5,293.20
	i. Pipe Sleeve, 1" dia.	34.41	l.m	133.00	4,575.97
	j. Grease/Tar	6.62	lit	21.00	138.95
Sub-total for E				P	3,281,514.62
F.	Direct Cost (C+E)				3,832,545.85
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	383,254.59
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	306,603.67
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	226,120.21
J.	Total Unit Cost				1,076.52

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : 404 (1)a Reinforcing Steel Bar, Grade 60

Unit of Measurement : kg.

Output per hour : 180.00

Quantity : 22,217.30

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	15.43	611.92	9,441.12
	b. Skilled Laborer	2	15.43	443.20	13,675.98
	c. Laborer	8	15.43	342.24	42,242.49
Sub-total for A				P	65,359.59
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount
B.	Equipment, (2009 ACEL Rates)				
	a. Bar Cutter	1	7.71	1,758.00	13,561.81
	b. Bar Bender	1	7.71	2,812.00	21,692.72
	c. Cargo Truck	1	2.31	8,816.00	20,402.89
Sub-total for B				P	55,657.42
C.	Total (A+B)			P	121,017.02
D.	Output/day 1,440.00 kg. /day				
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire	466.56	kg	81.00	37,791.63
	b. Reinforcing Steel Bar, Grade 60	23,328.17	kg	43.00	1,003,111.10
Sub-total for E				P	1,040,902.72
F.	Direct Cost (C+E)				1,161,919.74
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	116,191.97
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	92,953.58
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	68,553.26
J.	Total Unit Cost				64.80

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : cu.m

Output per hour : 1.40

Quantity : 250.00

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	22.32	611.92	13,658.93
	b. Skilled Laborer	4	22.32	443.20	39,571.43
	c. Laborer	8	22.32	342.24	61,114.29
	<i>Installation/Removal of Form Works</i>				
	a. Skilled Laborer	4	22.32	443.20	39,571.43
	b. Laborer	8	22.32	342.24	61,114.29
Sub-total for A					P 215,030.36
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	22.32	1,376.00	30,714.29
	b. Concrete Vibrator	1	22.32	972.00	21,696.43
	c. Water Truck	1	2.23	19,600.00	43,750.00
	Minor Tools (5% of Labor)				10,751.52
Sub-total for B					P 106,912.23
C.	Total (A+B)				P 321,942.59
D.	Output/day	11.20	cu.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Form Lumber	4,375.00	bd.ft	39.00	170,625.00
	b. Plywood	100.00	pc	1,220.00	122,000.00
	c. Assorted CW Nails	175.00	kg.	67.00	11,725.00
	d. Portland Cement	2,375.00	bag	277.31	658,612.17
	e. Sand	125.00	cu.m	1,201.79	150,223.75
	f. Gravel	250.00	cu.m	1,291.79	322,947.50
Sub-total for E					P 1,436,133.42
F.	Direct Cost (C+E)				1,758,076.01
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	175,807.60
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	140,646.08
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	103,726.48
J.	Total Unit Cost				8,713.02

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : 407(8) Lean Concrete

Unit of Measurement : cu.m

Output per hour : 1.40

Quantity : 17.10

Designation	No. of Person	No. of Days	Daily Rate	Amount
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A.	Labor				
	a. Construction Foreman	1	1.53	611.92	934.27
	b. Skilled Laborer	4	1.53	443.20	2,706.69
	c. Laborer	8	1.53	342.24	4,180.22
Sub-total for A				P	7,821.17
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.53	1,376.00	2,100.86
	b. Concrete Vibrator	1	1.53	730.00	1,114.55
	c. Water Truck	1	1.53	19,600.00	29,925.00
Sub-total for B				P	33,140.41
C.	Total (A+B)			P	40,961.58
D.	Output/day	11.20	cu.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Form Lumber	5.64	bd.ft	37.00	208.79
	b. Plywood	27.36	pc	640.00	17,510.40
	c. Assorted CW Nails	14.19	kg.	58.00	823.19
	d. Portland Cement	162.45	bag	277.31	45,049.07
	e. Sand	8.55	cu.m	1,201.79	10,275.30
	f. Gravel	17.10	cu.m	1,291.79	22,089.61
Sub-total for E				P	95,956.37
F.	Direct Cost (C+E)				136,917.96
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	13,691.80
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	10,953.44
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	8,078.16
J.	Total Unit Cost				9,920.55

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : 500(1)b3 Reinforced Concrete Culvert Pipe

Unit of Measurement : ln.m

Output per hour : 1.75

Quantity : 48.00

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

	a. Construction Foreman	1	3.43	611.92	2,098.01
	b. Skilled Laborer	2	3.43	443.20	3,039.09
	c. Laborer	4	3.43	342.24	4,693.58
Sub-total for A					P 9,830.67
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Backhoe	1	1.71	12,296.00	21,078.86
	b. Plate Compactor	1	1.71	984.00	1,686.86
	Minor Tools (10% of Labor)				983.07
Sub-total for B					P 23,748.78
C.	Total (A+B)				P 33,579.46
D.	Output/day	14.00	In.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	51.84	bag	277.31	14,375.77
	b. Sand	2.93	cu.m	1,201.79	3,518.84
	c. RC Pipes (910 mm dia.)	48.00	pc	2,089.00	100,272.00
	d. Sand Bedding	6.14	cu.m	1,201.79	7,383.80
Sub-total for E					P 125,550.41
F.	Direct Cost (C+E)				159,129.87
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	15,912.99
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	12,730.39
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	9,388.66
J.	Total Unit Cost				4,107.54

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : cu.m

Output per hour : 1.25

Quantity : 12.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.20	611.92	734.30
	b. Skilled Laborer	2	1.20	443.20	1,063.68

	c. Laborer	8	1.20	342.24	3,285.50
Sub-total for A				P	5,083.49
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.20	1,376.00	1,651.20
	b. Water Truck	1	0.06	19,600.00	1,176.00
	Minor Tools (5% of Labor)				254.17
Sub-total for B				P	3,081.37
C.	Total (A+B)			P	8,164.86
D.	Output/day	10.00	cu.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	36.00	bag	277.31	9,983.17
	b. Sand	3.00	cu.m	1,201.79	3,605.37
	c. Gravel Fill	0.18	cu.m	1,291.79	232.52
	d. Weep Holes (PVC), 2" dia.	3.60	ln.m	133.00	478.80
	e. Filter Cloth	0.18	sq.m	160.00	28.80
	f. Boulders	12.60	cu.m	1,451.79	18,292.55
	Miscellaneous (1% of Materials)				326.21
Sub-total for E				P	32,947.43
F.	Direct Cost (C+E)				41,112.29
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	4,111.23
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	3,288.98
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	2,425.63
J.	Total Unit Cost				4,244.84

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : cu.m

Output per hour : 1.56

Quantity : 27.50

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	2.20	611.92	1,346.22

	b. Skilled Laborer	2	2.20	443.20	1,950.08
	c. Laborer	8	2.20	342.24	6,023.42
Sub-total for A					P 9,319.73
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	2.20	1,376.00	3,027.20
	b. Water Truck	1	0.11	19,600.00	2,156.00
	c. Backhoe	1	0.22	12,296.00	2,705.12
	Minor Tools (10% of Labor)				931.97
Sub-total for B					P 8,820.29
C.	Total (A+B)				P 18,140.02
D.	Output/day	12.50	cu.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	151.25	bag	277.31	41,943.20
	b. Sand	8.25	cu.m	1,201.79	9,914.77
	c. Gravel Fill	0.55	cu.m	1,291.79	710.48
	d. Weep Holes (PVC)	8.25	ln.m	133.00	1,097.25
	e. Filter Cloth	0.41	sq.m	160.00	66.00
	f. Boulders	28.88	cu.m	1,451.79	41,920.44
	Miscellaneous (1% of Materials)				956.52
Sub-total for E					P 96,608.66
F.	Direct Cost (C+E)				114,748.68
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	11,474.87
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	9,179.89
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	6,770.17
J.	Total Unit Cost				5,169.95

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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	475.00	950.00
	b. Tarpaulin (4' x 8')	2.00	pc	800.00	1,600.00
	c. Assorted Sizes Lumber	100.00	bd. Ft	20.00	2,000.00
	d. Assorted Sizes CW Nails	2.00	kg	58.00	116.00
Sub-total for E				P	4,666.00
F.	Direct Cost (C+E)				5,100.90
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	510.09
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	408.07
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	300.95
J.	Total Unit Cost				3,160.01

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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	90.00	611.92	55,072.80
	b. First Aider	1	180.00	443.20	79,776.00

Sub-total for A				P	134,848.80
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	134,848.80
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)					147,208.80
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	11,776.70	
I. Value Added Tax (VAT)			5% per D.O 197 s 2016	7,949.28	
J. Total Unit Cost					166,934.78

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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	

	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				
	a. Low Bed Trailer	2	2.00	34,043.00	136,172.00
	b. Water Truck	1	2.00	19,600.00	39,200.00
	c. Backhoe	3	2.00	12,296.00	73,776.00
	d. Payloader	3	2.00	13,864.00	83,184.00
	e. Dumptruck	4	2.00	11,360.00	90,880.00
	f. Bullduzer	1	2.00	27,032.00	54,064.00
	g. Road Roller	1	2.00	13,216.00	26,432.00
	h. Road Grader	1	2.00	17,384.00	34,768.00
	Sub-total for B				P 538,476.00
C.	Total (A+B)				P 538,476.00
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)				538,476.00
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	26,923.80
J.	Total Unit Cost				565,399.80

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : A.1.1(3) Construction 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 Minor Tools (10% of Labor)	1	1.00	19,600.00	19,600.00 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	1,291.79	4,521.27
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	277.31	24,957.93
b.	Crushed Gravel	20.00	cu.m	1,291.79	25,835.80
c.	Washed Sand	17.00	cu.m	1,201.79	20,430.43
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	70.00	1,400.00
IV.	Formworks (Columns & Beams)				
a.	Coco Lumber	400.00	bd.ft	20.00	8,000.00
b.	Ordinary Plywood, 1/4"x4'x8'	18.00	pc	520.00	9,360.00
c.	CWN, Assorted	5.00	kg	58.00	290.00
V.	Masonry Works (masonry walls & plastering)				
a.	CHB 6" thk	650.00	pc	18.00	11,700.00
b.	Portland Cement	50.00	bag	277.31	13,865.52
c.	Washed Sand	10.00	cu.m	1,201.79	12,017.90
d.	10mm dia. X 6m RSB	75.00	kg	43.00	3,225.00
e.	No. 16 GI Tie Wire	2.50	kg	70.00	175.00
VI.	Doors and Windows				
a.	D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90mx2.1m	2.00	set	1,765.27	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					175,427.39
Sub-total for E				P	318,953.74
F.	Direct Cost (C+E)				404,003.90
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	40,400.39
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	32,320.31
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	23,836.23
J.	Total Unit Cost				500,560.83

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : A.1.1(3) Construction 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 : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

Item No./Description : A.1.1(3) Construction 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 : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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	
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	4.00	mons	1,200.00	4,800.00
b.	Water Bill	4.00	mons	1,000.00	4,000.00
c.	LPG Gasul (11 kg)	4.00	mons	1,000.00	4,000.00
Sub-Total for E					242,943.32
Sub-total for E					P 242,943.32
F.	Direct Cost (C+E)				242,943.32
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			12,147.17
J.	Total Unit Cost				255,090.49

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : sq.m

Output per hour : 25.00

Quantity : 781.00

Designation		No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	3.91	611.92	2,389.55
	b. Skilled Laborer	2	3.91	443.20	3,461.39
	c. Laborer	6	3.91	342.24	8,018.68
Sub-total for A					P 13,869.62
Name and Capacity		No. of Equip.	No. of Days	Daily Rate	Amount

B	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck	1	3.91	9,696.00	37,862.88
	b. Applicator Machine	1	3.91	750.00	2,928.75
	c. Kneading Machine	1	3.91	1,500.00	5,857.50
	Minor Tools (10% of labor)				
	Sub-total for B			P	46,649.13
C.	Total (A+B)			P	60,518.75
D.	Output/day	200.00	sq.m	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (white)	253.83	bag	1,585.00	402,312.63
	b. Glass Beads	25.77	bag	2,500.00	64,432.50
	c. Primer	93.72	liter	180.00	16,869.60
	d. LPG (50 kg.)	3.12	cyl	90.00	281.16
	e. LPG (12 kg.)	1.56	cyl	50.00	78.10
	f. Calsumine	97.63	kg	5.00	488.13
	Miscellaneous (5% of Materials)				24,223.11
	Sub-total for E			P	508,685.22
F.	Direct Cost (C+E)				569,203.97
G.	Overhead, Contingencies and Miscellaneous		10%	per D.O 197 s 2016	56,920.40
H.	Contractor's Profit (CP)		8%	per D.O 197 s 2016	45,536.32
I.	Value Added Tax (VAT)		5%	per D.O 197 s 2016	33,583.03
J.	Total Unit Cost				903.00

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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

Unit of Measurement : Km.

Output per hour : 0.04

Quantity : 3.16

Use two (2) gangs

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	(For Field Works)				
	a. Geodetic Engineer	1	5.27	833.31	4,388.77
	b. Skilled Laborer	6	5.27	443.20	14,005.12
	c. Laborer	6	5.27	342.24	10,814.78
	(For Office Works)				
	a. Geodetic Engineer	1	15.80	833.31	13,166.30
	b. Skilled Laborer	4	15.80	443.20	28,010.24
	Sub-total for A			P	70,385.21
	Name and Capacity	No. of Equip.	No. of Days	Daily Rate	Amount
B	Equipment, (2014 ACEL Rates)				

	a. Total Station w/ complete accessories Minor Tools (10% of labor)	2	5.27	800.00	8,426.67 7,038.52
	Sub-total for B				P 15,465.19
C.	Total (A+B)				P 85,850.40
D.	Output/day	0.60	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)				100,550.40
G.	Overhead, Contingencies and Miscellaneous			10% per D.O 197 s 2016	10,055.04
H.	Contractor's Profit (CP)			8% per D.O 197 s 2016	8,044.03
I.	Value Added Tax (VAT)			5% per D.O 197 s 2016	5,932.47
J.	Total Unit Cost				39,424.66

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DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction of Concrete Road at Zamboanga Del Sur Coastal Road, Package 3, Zamboanga del Sur

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	180.00	443.20	79,776.00
	Sub-total for A				P 79,776.00
	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	79,776.00
D.	Output/day	0.00	L.S	/day	
	Name and Specifications	Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Liters, Diesel Fuel	1,800.00	liters	33.00	59,400.00
	b. Engine Oil & Lubricants	1.00	ls	19,944.00	19,944.00
	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	217,344.00
F.	Direct Cost (C+E)				297,120.00
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	14,856.00
J.	Total Unit Cost				311,976.00

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21.07