

**APPROVED BUDGET FOR THE CONTRACT**

**Construction of Concrete Road Zamboanga del Sur Coastal Road, Package 4 Zamboanga del Sur**

Project Name and Location

Station Limits : Sta. 3+316.00 - Sta. 3+523.54      Sta. 3+573.44 - Sta. 6+540.00  
 Length : 3,174.00 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)
<b>PART A</b>	<b>FACILITIES FOR THE ENGINEER</b>											
A.1.1(3)	Const. of Field Office for the Engineer	1.00	LS	407,869.22	10.00	8.00	18.00	73,416.46	24,064.28	97,480.74	505,349.97	505,349.97
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	255,090.49	255,090.49	255,090.49
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	1.00	LS	300,720.00	0.00	0.00	0.00	-	15,036.00	315,756.00	315,756.00	315,756.00
	<b>TOTAL OF PART A</b>			<b>951,532.54</b>				<b>73,416.46</b>	<b>51,247.45</b>	<b>124,663.91</b>	<b>1,076,196.45</b>	
<b>PART B</b>	<b>OTHER GENERAL REQUIREMENTS</b>											
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	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	695,154.00	0.00	0.00	0.00	-	34,757.70	729,911.70	729,911.70	729,911.70
B.4(1)	Construction Survey and Staking	3.17	Km.	120,326.87	10.00	8.00	18.00	21,658.84	7,099.29	28,758.12	149,084.99	46,970.70
	<b>TOTAL OF PART B</b>			<b>967,048.57</b>				<b>34,220.14</b>	<b>50,063.44</b>	<b>84,283.58</b>	<b>1,051,332.15</b>	
<b>PART C</b>	<b>EARTHWORKS</b>											
101(4)a1	Removal of Existing Structures and Obstruction	42.00	each	15,569.44	10.00	8.00	18.00	2,802.50	918.60	3,721.09	19,290.53	459.30
103 (1)a	Structure Excavation	960.00	cu.m.	220,911.02	10.00	8.00	18.00	39,763.98	13,033.75	52,797.73	273,708.76	285.11
103(3)	Foundation Fill	16.00	cu.m.	22,863.46	10.00	8.00	18.00	4,115.42	1,348.94	5,464.37	28,327.82	1,770.49
103(6)a	Pipe Culvert and Drain Excavation	166.00	cu.m.	38,199.20	10.00	8.00	18.00	6,875.86	2,253.75	9,129.61	47,328.81	285.11
104(1)a	Embankment from Roadway Excavation	31,469.00	cu.m.	7,133,526.03	10.00	8.00	18.00	1,284,034.69	420,878.04	1,704,912.72	8,838,438.76	280.86
104(2)a	Embankment (Common Borrow)	7.00	cu.m.	7,772.74	10.00	8.00	18.00	1,399.09	458.59	1,857.68	9,630.42	1,375.77
105 (1)a	Subgrade Preparation	19,951.00	sq.m.	305,885.41	10.00	8.00	18.00	55,059.37	18,047.24	73,106.61	378,992.02	19.00
	<b>TOTAL OF PART C</b>			<b>7,744,727.29</b>				<b>1,394,050.91</b>	<b>456,938.91</b>	<b>1,850,989.82</b>	<b>9,595,717.11</b>	
<b>PART D</b>	<b>SUBBASE AND BASE COURSE</b>											
200 (1)	Aggregate Subbase Course	11,681.00	cu.m.	16,209,945.64	10.00	8.00	18.00	2,917,790.22	956,386.79	3,874,177.01	20,084,122.65	1,719.38
	<b>TOTAL OF PART D</b>			<b>16,209,945.64</b>				<b>2,917,790.22</b>	<b>956,386.79</b>	<b>3,874,177.01</b>	<b>20,084,122.65</b>	
<b>PART E</b>	<b>SURFACE COURSES</b>											
300 (1)	Aggregate Surface Course	1,297.00	cu.m.	1,859,533.54	10.00	8.00	18.00	334,716.04	109,712.48	444,428.52	2,303,962.06	1,776.38
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	21,266.00	sq.m.	34,429,137.66	10.00	8.00	18.00	6,197,244.78	2,031,319.12	8,228,563.90	42,657,701.56	2,005.91
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	1,830.00	sq.m	1,626,937.39	10.00	8.00	18.00	292,848.73	95,989.31	388,838.04	2,015,775.43	1,101.52
	<b>TOTAL OF PART E</b>			<b>37,915,608.59</b>				<b>6,824,809.55</b>	<b>2,237,020.91</b>	<b>9,061,830.45</b>	<b>46,977,439.05</b>	
<b>PART F</b>	<b>BRIDGE CONSTRUCTION</b>											
404(1)a	Reinforcing Steel Bar, Grade 40	21,841.43	kg.	1,067,655.81	10.00	8.00	18.00	192,178.05	62,991.69	255,169.74	1,322,825.55	60.56
404 (1)b	Reinforcing Steel Bar, Grade 60	29,476.22	kg.	1,533,710.77	10.00	8.00	18.00	276,067.94	90,488.94	366,556.87	1,900,267.65	64.47
405 (1) a3	Structural Concrete, Class A	1,105.00	cu.m	7,887,359.13	10.00	8.00	18.00	1,419,724.64	465,354.19	1,885,078.83	9,772,437.96	8,843.84
407(8)	Lean Concrete	21.52	cu.m	175,197.75	10.00	8.00	18.00	31,535.59	10,336.67	41,872.26	217,070.01	10,086.90
	<b>TOTAL OF PART F</b>			<b>10,663,923.46</b>				<b>1,919,506.22</b>	<b>629,171.48</b>	<b>2,548,677.71</b>	<b>13,212,601.17</b>	
<b>PART G</b>	<b>DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>											
500(1)b3	Pipe Culvert & Storm Drain	124.00	In.m	478,026.73	10.00	8.00	18.00	86,044.81	28,203.58	114,248.39	592,275.12	4,776.41
505(2)a	Grouted Riprap, Class A	27.00	cu.m	93,542.55	10.00	8.00	18.00	16,837.66	5,519.01	22,356.67	115,899.21	4,292.56
506(1)	Stone Masonry	58.00	cu.m	246,419.86	10.00	8.00	18.00	44,355.57	14,538.77	58,894.35	305,314.20	5,264.04
	<b>TOTAL OF PART G</b>			<b>817,989.13</b>				<b>147,238.04</b>	<b>48,261.36</b>	<b>195,499.40</b>	<b>1,013,488.53</b>	
<b>PART H</b>	<b>MISCELLANEOUS STRUCTURES</b>											
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	794.00	sq.m	578,678.55	10.00	8.00	18.00	104,162.14	34,142.03	138,304.17	716,982.73	903.00
	<b>TOTAL OF PART H</b>			<b>578,678.55</b>				<b>104,162.14</b>	<b>34,142.03</b>	<b>138,304.17</b>	<b>716,982.73</b>	
	<b>TOTAL</b>			<b>75,849,453.78</b>				<b>13,415,193.68</b>	<b>3,506,845.58</b>	<b>17,878,426.06</b>	<b>93,727,879.83</b>	

Prepared by:

Recommending Approval:

APPROVED:

**BELEN A. SAPALLEDA**  
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**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 :  <b>Construction of Concrete Road Zamboanga del Sur Coastal Road, Package 4 Zamboanga del Sur</b>	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. 3+316.00 - Sta. 3+523.54 Sta. 3+573.44 - Sta. 6+540.00	
Net Length : <b>6.35</b> lane km Net Length : <b>3,174.00</b> ln.m. / <b>3.174</b> km	

MINIMUM EQUIPMENT REQUIREMENT :		TECHNICAL PERSONNEL REQUIRED :			
DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.
Dumptruck (10 Wheeler)	10	Water Pump	1	Project Engineer	1
Bulldozer	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
101(4)a1	Removal of Existing Structures and Obstruc	0.021	each	42.00	15,569.44	370.70
103(1)a	Structure Excavation	0.291	cu.m.	960.00	220,911.02	230.12
103(3)	Foundation Fill	0.030	cu.m.	16.00	22,863.46	1,428.97
103(6)a	Pipe Culvert and Drain Excavation	0.050	cu.m.	166.00	38,199.20	230.12
104(1)a	Embankment from Roadway Excavation	9.405	cu.m.	31,469.00	7,133,526.03	226.68
104(2)a	Embankment (Common Borrow)	0.010	cu.m.	7.00	7,772.74	1,110.39
105(1)a	Subgrade Preparation	0.403	sq.m.	19,951.00	305,885.41	15.33
200(1)	Aggregate Subbase Course	21.371	cu.m.	11,681.00	16,209,945.64	1,387.72
300(1)	Aggregate Surface Course	2.452	cu.m.	1,297.00	1,859,533.54	1,433.72
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	45.391	sq.m.	21,266.00	34,429,137.66	1,618.98
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	2.145	sq.m	1,830.00	1,626,937.39	889.04
404(1)a	Reinforcing Steel Bar, Grade 40	1.408	kg.	21,841.43	1,067,655.81	48.88
404(1)b	Reinforcing Steel Bar, Grade 60	2.022	kg.	29,476.22	1,533,710.77	52.03
405(1) a3	Structural Concrete, Class A	10.399	cu.m	1,105.00	7,887,359.13	7,137.88
407(8)	Lean Concrete	0.231	cu.m	21.52	175,197.75	8,141.16
500(1)b3	Pipe Culvert & Storm Drain	0.630	ln.m	124.00	478,026.73	3,855.05
505(2)a	Grouted Riprap, Class A	0.123	cu.m	27.00	93,542.55	3,464.54
506(1)	Stone Masonry	0.325	cu.m	58.00	246,419.86	4,248.62
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.763	sq.m	794.00	578,678.55	728.81
A.1.1(3)	Const. of Field Office for the Engineer	0.538	LS	1.00	407,869.22	407,869.22
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	0.320	LS	1.00	242,943.32	242,943.32
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	0.396	L.S	1.00	300,720.00	300,720.00
B.5	Project Billboard	0.006	Unit	2.00	4,358.90	2,179.45
B.7	Construction Safety and Health Program	0.194	L.S	1.00	147,208.80	147,208.80
B.9	Mobilization and Demobilization	0.916	L.S	1.00	695,154.00	695,154.00
B.4(1)	Construction Survey and Staking	0.159	Km.	3.17	120,326.87	37,910.17
<b>TOTAL</b>		<b>100.000</b>			<b>P 75,849,453.78</b>	

Name of Project : **Construction of Concrete Road Zamboanga del Sur Coastal Road, Package 4 Zamboanga del Sur**

Station Limits : Sta. 3+316.00 - Sta. 3+523.54  
Sta. 3+573.44 - Sta. 6+540.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1 Materials	60.09	58,892,107.27
A.2 Labor	2.14	2,095,576.39
A.3 Equipment Expenses	15.17	14,861,770.12
SUB-TOTAL (DIRECT COST)	77.40	P 75,849,453.78
B. INDIRECT COST (Per DO # 197 s. 2016)		
B.1 Overhead, Contingency & Misc. (10% Max. of D.C.)	7.60	7,446,342.77
B.2 Profit (8% Max. D.C.)	6.09	5,968,850.92
C. VAT (5% of D.C. and I.C. per D.O. # 197)	4.55	4,463,232.37
SUB-TOTAL (CONTRACT COST)	95.64	P 93,727,879.83
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)	0.86	842,120.17
4 Physical Reserved	0.00	
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