

Name of Project : **Construction of Concrete Road at Midsalip - Buboan Road, Zamboanga del Sur 1st LD**

Station Limits : Chainage 0000.00 - Chainage 2380.00

<b>BREAKDOWN OF ESTIMATED EXPENDITURES</b>	<b>% OF TOTAL</b>	<b>AMOUNT</b>
I. ESTIMATED COST		
A. DIRECT COST		
A.1 Materials	34.50	51,753,755.38
A.2 Labor	1.81	2,721,651.67
A.3 Equipment Expenses	41.66	62,492,626.14
SUB-TOTAL (DIRECT COST)	77.98	P 116,968,033.20
B. INDIRECT COST (Per DO # 197 s. 2016)		
B.1 Overhead, Contingency & Misc. (10% Max. of D.C.)	7.67	11,512,438.78
B.2 Profit (8% Max. D.C.)	6.15	9,228,200.47
C. VAT (5% of D.C. and I.C. per D.O. # 197)	4.59	6,885,433.62
SUB-TOTAL (CONTRACT COST)	96.40	P 144,594,106.07
II. ESTIMATED GOVERNMENT EXPENDITURES		
1 Engineering and Administrative Overhead (3.5%)	3.50	5,250,000.00
2 Detailed Engineering (1%)		
3 Reserved for the Payment of RROW)	0.10	155,893.93
4 Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00	P 150,000,000.00

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

116,968,033.20

116,968,033.20

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27,626,072.87

27,626,072.87

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219,296,936.96

144,594,106.07

52,463,382.05

144,594,106.07

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**APPROVED BUDGET FOR THE CONTRACT**

**Construction of Concrete Road at Midsalip - Buboan Road, Zamboanga del Sur 1st LD**

Project Name and Location

Station Limits : Chainage 0000.00 - Chainage 2380.00

Length : 2,380.00 In.m.

Contract Duration : 288.00 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)	Bunkhouse (7.00 m x 9.00 m )	1.00	LS	393,397.79	10.00	8.00	18.00	70,811.60	23,210.47	94,022.07	487,419.86	487,419.86
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	1.00	LS	250,623.32	0.00	0.00	0.00	-	12,531.17	12,531.17	263,154.49	263,154.49
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	1.00	L.S	392,592.00	0.00	0.00	0.00	-	19,629.60	19,629.60	412,221.60	412,221.60
	<b>TOTAL OF PART A</b>			<b>1,036,613.11</b>				<b>70,811.60</b>	<b>55,371.24</b>	<b>126,182.84</b>	<b>1,162,795.95</b>	
<b>PART B</b>	<b>OTHER GENERAL REQUIREMENTS</b>											
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	L.S	228,118.08	0.00	8.00	8.00	18,249.45	12,318.38	30,567.82	258,685.90	258,685.90
B.9	Mobilization and Demobilization	1.00	L.S	972,312.00	0.00	0.00	0.00	-	48,615.60	48,615.60	1,020,927.60	1,020,927.60
B.4(1)	Construction Survey and Staking	2.38	Km.	93,903.51	10.00	8.00	18.00	16,902.63	5,540.31	22,442.94	116,346.45	48,885.06
	<b>TOTAL OF PART B</b>			<b>1,299,434.49</b>				<b>36,070.24</b>	<b>66,775.24</b>	<b>102,845.48</b>	<b>1,402,279.97</b>	
<b>PART C</b>	<b>EARTHWORKS</b>											
101(2)	Removal of Actual Structures/ Obstructions (Existing)	30.00	each	10,852.70	10.00	8.00	18.00	1,953.49	640.31	2,593.80	13,446.50	448.22
101(3b2)	Removal of Actual Structures/ Obstructions (PCCP)	1,122.00	sq. m.	116,639.05	10.00	8.00	18.00	20,995.03	6,881.70	27,876.73	144,515.79	128.80
101(4)a	Removal of Structures & Obstruction (Existing RCPC, 610mm)	26.00	each	9,638.22	10.00	8.00	18.00	1,734.88	568.66	2,303.53	11,941.76	459.30
101(4)c	Removal of Structures & Obstruction (Existing RCPC, 910mm)	40.00	each	22,242.05	10.00	8.00	18.00	4,003.57	1,312.28	5,315.85	27,557.90	688.95
102(2)	Surplus Common Excavation	320,464.00	cu.m.	53,158,100.98	10.00	8.00	18.00	9,568,458.18	3,136,327.96	12,704,786.13	65,862,887.11	205.52
103 (1a)	Structure Excavation	1,086.00	cu.m.	249,905.60	10.00	8.00	18.00	44,983.01	14,744.43	59,727.44	309,633.03	285.11
103(3)	Foundation Fill	22.00	cu.m.	20,180.78	10.00	8.00	18.00	3,632.54	1,190.67	4,823.21	25,003.98	1,136.54
103(6a)	Pipe Culvert and Drain Excavation	213.00	cu.m.	49,014.63	10.00	8.00	18.00	8,822.63	2,891.86	11,714.50	60,729.13	285.11
104(1)a1	Embankment (from excavation)	5,117.00	cu.m.	1,159,943.20	10.00	8.00	18.00	208,789.78	68,436.65	277,226.43	1,437,169.63	280.86
105 (1)a	Subgrade Preparation	22,088.50	sq.m.	338,657.20	10.00	8.00	18.00	60,958.30	19,980.77	80,939.07	419,596.27	19.00
	<b>TOTAL OF PART C</b>			<b>55,135,174.42</b>				<b>9,924,331.39</b>	<b>3,252,975.29</b>	<b>13,177,306.69</b>	<b>68,312,481.10</b>	
<b>PART D</b>	<b>SUBBASE AND BASE COURSE</b>											
200 (1)	Aggregate Subbase Course	8,983.50	cu.m.	10,691,496.92	10.00	8.00	18.00	1,924,469.45	630,798.32	2,555,267.76	13,246,764.69	1,474.57
	<b>TOTAL OF PART D</b>			<b>10,691,496.92</b>				<b>1,924,469.45</b>	<b>630,798.32</b>	<b>2,555,267.76</b>	<b>13,246,764.69</b>	
<b>PART E</b>	<b>SURFACE COURSES</b>											
300 (1)	Aggregate Surface Course	998.00	cu.m.	1,302,515.75	10.00	8.00	18.00	234,452.83	76,848.43	311,301.26	1,613,817.01	1,617.05
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	16,916.00	sq.m.	24,952,998.67	10.00	8.00	18.00	4,491,539.76	1,472,226.92	5,963,766.68	30,916,765.35	1,827.66
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	1,010.00	sq.m	819,951.77	10.00	8.00	18.00	147,591.32	48,377.15	195,968.47	1,015,920.24	1,005.86
	<b>TOTAL OF PART E</b>			<b>27,075,466.19</b>				<b>4,873,583.91</b>	<b>1,597,452.50</b>	<b>6,471,036.42</b>	<b>33,546,502.60</b>	
<b>PART F</b>	<b>BRIDGE STRUCTURE</b>											
404(1)a	Reinforcing Steel Bar, Grade 40	21,965.50	kg.	1,068,646.59	10.00	8.00	18.00	192,356.39	63,050.15	255,406.54	1,324,053.13	60.28
405 (1) a3	Structural Concrete, Class A	543.00	cu.m	3,558,690.69	10.00	8.00	18.00	640,564.32	209,962.75	850,527.07	4,409,217.76	8,120.11
	<b>TOTAL OF PART F</b>			<b>4,627,337.28</b>				<b>832,920.71</b>	<b>273,012.90</b>	<b>1,105,933.61</b>	<b>5,733,270.89</b>	
<b>PART G</b>	<b>DRAINAGE AND SLOPE PROTECTION STRUCTURES</b>											
500(1)b3	RC Culvert Pipe, 910 mm (36" dia.)	157.00	In.m	474,249.60	10.00	8.00	18.00	85,364.93	27,980.73	113,345.65	587,595.25	3,742.64
500(1)b	RC Culvert Pipe, 1070 mm (42" dia.)	9.00	In.m	38,616.60	10.00	8.00	18.00	6,950.99	2,278.38	9,229.37	47,845.97	5,316.22
505(5)	Grouted Riprap, Class A	129.50	cu.m	414,383.38	10.00	8.00	18.00	74,589.01	24,448.62	99,037.63	513,421.01	3,964.64
506 (1)	Stone Masonry	156.00	cu.m	609,705.19	10.00	8.00	18.00	109,746.93	35,972.61	145,719.54	755,424.73	4,842.47
	<b>TOTAL OF PART G</b>			<b>1,536,954.77</b>				<b>276,651.86</b>	<b>90,680.33</b>	<b>367,332.19</b>	<b>1,904,286.96</b>	
<b>PART H</b>	<b>MISCELLANEOUS STRUCTURES</b>											
611(1)	Trees (Furnishing and Transplanting)	239.00	each	971,103.61	10.00	8.00	18.00	174,798.65	57,295.11	232,093.76	1,203,197.37	5,034.30
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	558.50	sq.m	407,042.79	10.00	8.00	18.00	73,267.70	24,015.52	97,283.23	504,326.01	903.00
612(2)	ReflectORIZED Thermoplastic Pavement Markings (Yellow)	111.00	sq.m	89,783.58	10.00	8.00	18.00	16,161.04	5,297.23	21,458.27	111,241.85	1,002.18
622(1a)	Bio-Engineered Erosion Coco Fiber Erosion Control Net	29,289.50	sq.m	6,318,098.38	10.00	8.00	18.00	1,137,257.71	372,767.80	1,510,025.51	7,828,123.89	267.27
622(2)	Bio-Engineered Erosion Coco Logs/Fascine Control System	2,390.00	In.m	1,468,671.41	10.00	8.00	18.00	264,360.85	86,651.61	351,012.47	1,819,683.88	761.37
622(3)	Bio-Engineered Erosion Control System Vegetation	29,289.50	sq.m	6,310,856.26	10.00	8.00	18.00	1,135,954.13	372,340.52	1,508,294.65	7,819,150.91	266.96
	<b>TOTAL OF PART H</b>			<b>15,565,556.02</b>				<b>2,801,800.08</b>	<b>918,367.81</b>	<b>3,720,167.89</b>	<b>19,285,723.91</b>	
	<b>TOTAL</b>			<b>116,968,033.20</b>				<b>20,740,639.25</b>	<b>6,254,635.30</b>	<b>27,626,072.87</b>	<b>144,594,106.07</b>	

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

**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 at Midsalip - Buboan Road, Zamboanga del Sur 1st LD</b>	Appropriation : P 150,000,000.00 Source of Funds : CY-2017 Issued Obligated Authority : Released : Cal. Days to Complete : 288.00 Cal. Days
PROJECT CATEGORY : NATIONAL ROAD	Desirable Starting Date : Upon Approval Mode of Implementation :
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	NET LENGTH : Chainage 0000.00 - Chainage 2380.00  Net Length : <b>4.76</b> lane km. Net Length : <b>2,380.00</b> In.m. / <b>2.380</b> 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
101(2)	Removal of Actual Structures/ Obstructions (Existing Headwall)	0.009	each	30.00	10,852.70	361.76
101(3b2)	Removal of Actual Structures/ Obstructions (PCCP)	0.100	sq. m.	1,122.00	116,639.05	103.96
101(4)a	Removal of Structures & Obstruction (Existing RCPC, 610mm)	0.008	each	26.00	9,638.22	370.70
101(4)c	Removal of Structures & Obstruction (Existing RCPC, 910mm)	0.019	each	40.00	22,242.05	556.05
102(2)	Surplus Common Excavation	45.447	cu.m.	320,464.00	53,158,100.98	165.88
103(1a)	Structure Excavation	0.214	cu.m.	1,086.00	249,905.60	230.12
103(3)	Foundation Fill	0.017	cu.m.	22.00	20,180.78	917.31
103(6)a	Pipe Culvert and Drain Excavation	0.042	cu.m.	213.00	49,014.63	230.12
104(1)a1	Embankment (from excavation)	0.992	cu.m.	5,117.00	1,159,943.20	226.68
105(1)a	Subgrade Preparation	0.290	sq.m.	22,088.50	338,657.20	15.33
200(1)	Aggregate Subbase Course	9.141	cu.m.	8,983.50	10,691,496.92	1,190.13
300(1)	Aggregate Surface Course	1.114	cu.m.	998.00	1,302,515.75	1,305.13
311(1)e1a	Portland Cement Concrete Pavement-using Conventional Method, 0.28m thick	21.333	sq.m.	16,916.00	24,952,998.67	1,475.11
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	0.701	sq.m	1,010.00	819,951.77	811.83
404(1)a	Reinforcing Steel Bar, Grade 40	0.914	kg.	21,965.50	1,068,646.59	48.65
405(1) a3	Structural Concrete, Class A	3.042	cu.m	543.00	3,558,690.69	6,553.76
500(1)b3	RC Culvert Pipe, 910 mm (36" dia.)	0.405	In.m	157.00	474,249.60	3,020.70
500(1)b	RC Culvert Pipe, 1070 mm (42" dia.)	0.033	In.m	9.00	38,616.60	4,290.73
505(5)	Grouted Riprap, Class A	0.354	cu.m	129.50	414,383.38	3,199.87
506(1)	Stone Masonry	0.521	cu.m	156.00	609,705.19	3,908.37
611(1)	Trees (Furnishing and Transplanting)	0.830	each	239.00	971,103.61	4,063.20
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.348	sq.m	558.50	407,042.79	728.81
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.077	sq.m	111.00	89,783.58	808.86
622(1a)	Bio-Engineered Erosion Coco Fiber Erosion Control Net	5.402	sq.m	29,289.50	6,318,098.38	215.71
622(2)	Bio-Engineered Erosion Coco Logs/Fascine Control System	1.256	In.m	2,390.00	1,468,671.41	614.51

622(3)	Bio-Engineered Erosion Control System Vegetation	5.395	sq.m	29,289.50	6,310,856.26	215.46
A.1.1(3)	Bunkhouse,(7.00 m x 9.00 m )	0.336	LS	1.00	393,397.79	393,397.79
A.1.1(11)	Prov. Of Furniture, Equipment and Appliances for Field Engineer	0.214	LS	1.00	250,623.32	250,623.32
A.1.2(5)	Operation & Maintenance of Gov't. Service Vehicle	0.336	L.S	1.00	392,592.00	392,592.00
B.5	Project Billboard	0.004	Unit	2.00	5,100.90	2,550.45
B.7	Construction Safety and Health Program	0.195	L.S	1.00	228,118.08	228,118.08
B.9	Mobilization and Demobilization	0.831	L.S	1.00	972,312.00	972,312.00
B.4(1)	Construction Survey and Staking	0.080	Km.	2.38	93,903.51	39,455.26
<b>TOTAL</b>		<b>100.000</b>			<b>P 116,968,033.20</b>	