

APPROVED BUDGET FOR THE CONTRACT

Construction of Bypasses/Diversion Roads Including ROW at Jct. National Highway R.T. Lim-Jct. National Highway Siocon Road (Surabay-San Fernando), Zamboanga Sibugay 2nd DEO

Contract Duration : **432.00**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST	
					OCM	PROFIT	%	VALUE					
					(6)	(7)	(8)	(9) (5) x (8)					(10) 5%[(5) + (9)]
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
PART-A	FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer (Bunkhouse 7m x 9m)	1.00	l.s.	474,916.61	8.00	8.00	16.00	75,986.66	27,545.16	103,531.82	578,448.43	578,448.43	
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office	1.00	l.s.	114,725.00	0.00	8.00	8.00	9,178.00	6,195.15	15,373.15	130,098.15	130,098.15	
A.1.2(5)	Operation and Maintenance of 4x4 Pick-Up type Service Vehicle	11.00	mos.	612,351.20	0.00	0.00	0.00	-	30,617.56	30,617.56	642,968.76	58,451.71	
A.1.3(2)	Furnish, Operate and Maintain Survey Equipment and Apparatus for the Assistance to the Engineer	1.00	l.s.	450,316.66	0.00	8.00	8.00	36,025.33	24,317.10	60,342.43	510,659.09	510,659.09	
PART-B	OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey and Staking	8.20	km.	345,645.16	8.00	8.00	16.00	55,303.23	20,047.42	75,350.64	420,995.80	51,340.95	
B.5	Project Billboard	2.00	each	12,889.20	8.00	8.00	16.00	2,062.27	747.57	2,809.85	15,699.05	7,849.52	
B.7	Occupational Safety and Health Program	11.00	mos.	236,181.08	0.00	8.00	8.00	18,894.49	12,753.78	31,648.26	267,829.34	24,348.12	
B.9	Mobilization/Demobilization	1.00	l.s.	1,288,390.80	0.00	0.00	0.00	-	64,419.54	64,419.54	1,352,810.34	1,352,810.34	
PART-C	EARTHWORKS												
101(2)	Removal of Existing Headwall	27.00	cu.m.	8,629.73	8.00	8.00	16.00	1,380.76	500.52	1,881.28	10,511.01	389.30	
101(4)a	Removal of Existing RCPC - 610mmφ	73.00	l.m.	29,507.27	8.00	8.00	16.00	4,721.16	1,711.42	6,432.58	35,939.85	492.33	
101(4)c	Removal of Existing RCPC - 910mmφ	6.00	l.m.	3,637.88	8.00	8.00	16.00	582.06	211.00	793.06	4,430.94	738.49	
102(2)	Roadway Excavation (Surplus Common)	94,737.50	cu.m.	13,658,284.65	8.00	8.00	16.00	2,185,325.54	792,180.51	2,977,506.05	16,635,790.71	175.60	
102(3)b	Roadway Excavation (Surplus Hard Rock) - Blasting	7,595.00	cu.m.	5,843,640.92	8.00	8.00	16.00	934,982.55	338,931.17	1,273,913.72	7,117,554.64	937.14	
103(1)a	Structure Excavation	2,245.00	cu.m.	516,609.63	8.00	8.00	16.00	82,657.54	29,963.36	112,620.90	629,230.53	280.28	
103(3)	Foundation Fill	36.50	cu.m.	54,090.34	8.00	8.00	16.00	8,654.45	3,137.24	11,791.69	65,882.03	1,804.99	
103(6)a	Pipe Culvert and Drain Excavation	422.50	cu.m.	97,223.86	8.00	8.00	16.00	15,555.82	5,638.98	21,194.80	118,418.66	280.28	
104(1)a1	Embankment (from Excavation)	58,168.50	cu.m.	13,303,012.28	8.00	8.00	16.00	2,128,481.97	771,574.71	2,900,056.68	16,203,068.96	278.55	
105(1)b	Subgrade Preparation	69,492.00	sq.m.	1,110,377.92	8.00	8.00	16.00	177,660.47	64,401.92	242,062.39	1,352,440.31	19.46	
PART-D	SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course, 0.30m. Thick	32,547.50	cu.m.	36,989,787.85	8.00	8.00	16.00	5,918,366.06	2,145,407.70	8,063,773.75	45,053,561.60	1,384.24	
300(1)	Aggregate Surface Course, 0.15m thk.	2,655.50	cu.m.	3,279,545.69	8.00	8.00	16.00	524,727.31	190,213.65	714,940.96	3,994,486.65	1,504.23	
PART-E	SURFACE COURSE												
311(1)e1	Portland Cement Concrete Pavement, 0.28m. Thick	55,849.00	sq.m.	81,823,871.85	8.00	8.00	16.00	13,091,819.50	4,745,784.57	17,837,604.06	99,661,475.91	1,784.48	
311(1)a	PCC Pavement Conventional Method, 150 mm thk.	9,292.50	sq.m.	7,444,215.51	8.00	8.00	16.00	1,191,074.48	431,764.50	1,622,838.98	9,067,054.49	975.74	
404(1)a	Reinforcing Steel Bar, (Grade 40)	27,248.00	Kg.	1,362,287.41	8.00	8.00	16.00	217,965.99	79,012.67	296,978.66	1,659,266.06	60.89	
405(1)a3	Structural Concrete, Class "A"	673.50	cu.m.	4,482,308.68	8.00	8.00	16.00	717,169.39	259,973.90	977,143.29	5,459,451.98	8,106.09	
PART-F	DRAINAGE AND SLOPE PROTECTION STRUCTURES												
500(1)b1	Reinf. Conc. Culvert Pipe, (610mm dia.)	6.00	ln.m.	12,516.25	8.00	8.00	16.00	2,002.60	725.94	2,728.54	15,244.80	2,540.80	
500(1)b3	Reinf. Conc. Culvert Pipe, (910mm dia.)	203.00	ln.m.	627,207.29	8.00	8.00	16.00	100,353.17	36,378.02	136,731.19	763,938.48	3,763.24	
505(5)	Grouted Riprap, Class "A"	46.50	cu.m.	146,550.34	8.00	8.00	16.00	23,448.06	8,499.92	31,947.98	178,498.32	3,838.67	
506(1)	Stone Masonry	146.00	cu.m.	530,887.32	8.00	8.00	16.00	84,941.97	30,791.46	115,733.44	646,620.75	4,428.91	

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) (5) x (8)	(10) 5%[(5) + (9)]	(11) (9) + (10)	(12) (5) + (11)	(13) (12) / (3)
PART-G	MISCELLANEOUS STRUCTURES											
603(3)a1	Metal Guardrails	1,460.00	ln.m.	4,373,773.30	8.00	8.00	16.00	699,803.73	253,678.85	953,482.58	5,327,255.87	3,648.81
603(3)b1	Metal Beam End Piece	20.00	each	28,011.32	8.00	8.00	16.00	4,481.81	1,624.66	6,106.47	34,117.79	1,705.89
605(2)aj1	Regulatory Signs (R6-9A)	2.00	each	21,467.20	8.00	8.00	16.00	3,434.75	1,245.10	4,679.85	26,147.05	13,073.52
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	1,924.00	sq.m.	1,422,286.08	8.00	8.00	16.00	227,565.77	82,492.59	310,058.37	1,732,344.45	900.39
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	410.50	sq.m.	319,929.20	8.00	8.00	16.00	51,188.67	18,555.89	69,744.57	389,673.77	949.27
620(1)a	Chevron Signs	74.00	each	886,848.42	8.00	8.00	16.00	141,895.75	51,437.21	193,332.96	1,080,181.38	14,597.05
622(1)a	Bio-Engineering Coco Fiber Erosion Control Net (CGN 400)	14,876.00	sq.m.	1,709,431.80	8.00	8.00	16.00	273,509.09	99,147.04	372,656.13	2,082,087.94	139.96
622(1)b	Bio-Engineering Coco Fiber Erosion Control Net (CGN 700)	5,972.00	sq.m.	817,937.42	8.00	8.00	16.00	130,869.99	47,440.37	178,310.36	996,247.78	166.82
622(2)	Bio-Engineering Coco Fascine Erosion Control System	1,340.00	ln.m.	667,262.20	8.00	8.00	16.00	106,761.95	38,701.21	145,463.16	812,725.36	606.51
622(3)	Bio-Engineered Erosion Control System (vegetation)	20,848.00	sq.m.	3,334,112.23	8.00	8.00	16.00	533,457.96	193,378.51	726,836.47	4,060,948.70	194.79
T O T A L				188,440,667.57					10,911,147.89		229,134,105.73	

Submitted :

Recommending Approval :

Approved :

BELEN A. SAPALLEDA

Head, BAC-TWG

CAYAMOMBAO D. DIA

OIC - Assistant Regional Director

JORGE U. SEBASTIAN, JR., CESO III

Regional Director

NAME OF PROJECT : Construction of Bypasses/Diversion Roads Including ROW at Jct. National Highway R.T. Lim-Jct. National Highway Siocon Road (Surabay-San Fernandino), Zamboanaa Sibuaay 2nd DFO

STATION LIMITS: Beg. Of Project: K1827+600.00 End Of Project: K1835+800.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Materials	52.81	132,021,116.94
A.2. Labor	1.33	3,328,714.93
A.3. Equipment Expenses	21.24	53,090,835.70
SUB-TOTAL (DIRECT COST)	75.38	P 188,440,667.57
B. INDIRECT COST (Per D.O. # 22)		
B.1. Overhead, Contingency & Misc. (9% Max. of D.C.)	5.94	14,859,096.23
B.2. Profit (8 % Max. of D.C.)	5.97	14,923,194.05
C. VAT (5% of D.C. and I.C.)	4.36	10,911,147.89
SUBTOTAL (CONTRACT COST)	91.65	P 229,134,105.73
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.50%)	3.50	8,750,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW	4.00	10,000,000.00
4. Physical Reserved	0.85	2,115,894.27
TOTAL ESTIMATED PROJECT COST	100.00	P 250,000,000.00

Prepared:

Checked:

MICHAEL D. TORINO

Engineer II

JERALD R. BARRERA

Engineer II

Submitted:

LEONCIO B. SOLAMILLO

Chief, Construction Division

Recommending Approval:

CAYAMOMBAO D. DIA

OIC - Assistant Regional Director

Approved:

JORGE U. SEBASTIAN, JR., CESO III

Regional Director

Republic of the Philippines
 Department of Public Works and Highways
 Bureau : DPWH
 Region : IX
 District/City : Zamboanga City

PROGRAM OF WORK

(For all types of Project)

Date : JAN. 23, 2017

NAME/LOCATION OF PROJECT : Construction of Bypasses/Diversion Roads Including ROW at Jct. National Highway R.T. Lim-Jct. National Highway Siocon Road (Surabay-San Fernandino), Zamboanga Sibugay 2nd DEO	Appropriation : P 250,000,000.00 Source of Funds : CY 2017 Regular Infra Project Issued Obligated Authority : Released : Cal. Days to Complete : 432 Calendar Days Desirable Starting Date : Upon Approval Mode of Implementation : By Contract
PROJECT CATEGORY : NATIONAL ROAD	NET LENGTH : Beg. Of Project: K1827+600.00 End Of Project: K1835+800.00 N.L. = 8,200.00 In.m.
PROJECT DESCRIPTION : Scope of Work : Unpaved to Paved Road Width : 6.70 meters, (PCCP 0.28 m. thk.) Roadbed Width : 12.00 meters Subbase Course : 0.30 meters Surface Course : 0.15 meters	

MINIMUM EQUIPMENT REQUIREMENT :

TECHNICAL PERSONNEL REQUIRED :

Description	No.	Description	No.	Description	No.
Bulldozer (155 HP), D65A-8	2	Plate Compactor (5Hp)	2	Project Engineer	1
Payloader (1.50 cu.m.)	2	Concrete Paver, GP-2000 Slipform	1	Materials Engineer	1
Motorized Road Grader, G710A	2	Transit Mixer (5 cu.m.)	4	Materials Lab. Tech.	1
Vibratory Roller (10 m.t.), SP56	2	Concrete Saw, Blade Ø 14" (7.5 Hp)	1	Surveyor	1
Batching Plant (30 cu.m.)	1	Bar Cutter, Single Phase	1	Safety Practitioner	1
Dumptruck (10 cu.m.)	4	Bar Bender	1	Foreman	2
Backhoe (0.80 cu.m.)	2	Service Crane (25 T, 145 Hp)	1	Carpenter	8
Water Truck	2	One Bagger Mixer	1	Mason	15
Cargo Truck (10T, 270 Hp)	2	Concrete Vibrator	1	Laborer	30

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART-A FACILITIES FOR THE ENGINEER						
A.1.1(3)	Construction of Field Office for the Engineer (Bunkhouse 7m x 9m)	0.252	l.s.	1.00	474,916.61	474,916.61
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment & Appliances for the Field Office	0.061	l.s.	1.00	114,725.00	114,725.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick-Up type Service Vehicle	0.325	mos.	11.00	612,351.20	55,668.29
A.1.3(2)	Furnish, Operate and Maintain Survey Equipment and Apparatus for the Assistance to the Engineer	0.239	l.s.	1.00	450,316.66	450,316.66
PART-B OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey and Staking	0.183	km.	8.20	345,645.16	42,151.85
B.5	Project Billboard	0.007	each	2.00	12,889.20	6,444.60
B.7	Occupational Safety and Health Program	0.125	mos.	11.00	236,181.08	21,471.01
B.9	Mobilization/Demobilization	0.684	l.s.	1.00	1,288,390.80	1,288,390.80
PART-C EARTHWORKS						
101(2)	Removal of Existing Headwall	0.005	cu.m.	27.00	8,629.73	319.62
101(4)a	Removal of Existing RCPC - 610mmφ	0.016	l.m.	73.00	29,507.27	404.21
101(4)c	Removal of Existing RCPC - 910mmφ	0.002	l.m.	6.00	3,637.88	606.31
102(2)	Roadway Excavation (Surplus Common)	7.248	cu.m.	94,737.50	13,658,284.65	144.17

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
102(3)b	Roadway Excavation (Surplus Hard Rock) - Blasting	3.101	cu.m.	7,595.00	5,843,640.92	769.41
103(1)a	Structure Excavation	0.274	cu.m.	2,245.00	516,609.63	230.12
103(3)	Foundation Fill	0.029	cu.m.	36.50	54,090.34	1,481.93

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
103(6)a	Pipe Culvert and Drain Excavation	0.052	cu.m.	422.50	97,223.86	230.12
104(1)a1	Embankment (from Excavation)	7.060	cu.m.	58,168.50	13,303,012.28	228.70
105(1)b	Subgrade Preparation	0.589	sq.m.	69,492.00	1,110,377.92	15.98
PART-D	SUBBASE AND BASE COURSE					
200(1)	Aggregate Subbase Course, 0.30m. Thick	19.629	cu.m.	32,547.50	36,989,787.85	1,136.49
300(1)	Aggregate Surface Course, 0.15m thk.	1.740	cu.m.	2,655.50	3,279,545.69	1,235.00
PART-E	SURFACE COURSE					
311(1)e1	Portland Cement Concrete Pavement, 0.28m. Thick	43.422	sq.m.	55,849.00	81,823,871.85	1,465.09
311(1)a	PCC Pavement Conventional Method, 150 mm thk.	3.950	sq.m.	9,292.50	7,444,215.51	801.10
404(1)a	Reinforcing Steel Bar, (Grade 40)	0.723	Kg.	27,248.00	1,362,287.41	50.00
405(1)a3	Structural Concrete, Class "A"	2.379	cu.m.	673.50	4,482,308.68	6,655.25
PART-F	DRAINAGE AND SLOPE PROTECTION STRUCTURES					
500(1)b1	Reinf. Conc. Culvert Pipe, (610mm dia.)	0.007	ln.m.	6.00	12,516.25	2,086.04
500(1)b3	Reinf. Conc. Culvert Pipe, (910mm dia.)	0.333	ln.m.	203.00	627,207.29	3,089.69
505(5)	Grouted Riprap, Class "A"	0.078	cu.m.	46.50	146,550.34	3,151.62
506(1)	Stone Masonry	0.282	cu.m.	146.00	530,887.32	3,636.21
PART-G	MISCELLANEOUS STRUCTURES					
603(3)a1	Metal Guardrails	2.321	ln.m.	1,460.00	4,373,773.30	2,995.74
603(3)b1	Metal Beam End Piece	0.015	each	20.00	28,011.32	1,400.57
605(2)aj1	Regulatory Signs (R6-9A)	0.011	each	2.00	21,467.20	10,733.60
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.755	sq.m.	1,924.00	1,422,286.08	739.23
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.170	sq.m.	410.50	319,929.20	779.36
620(1)a	Chevron Signs	0.471	each	74.00	886,848.42	11,984.44
622(1)a	Bio-Engineering Coco Fiber Erosion Control Net (CGN 400)	0.907	sq.m.	14,876.00	1,709,431.80	114.91
622(1)b	Bio-Engineering Coco Fiber Erosion Control Net (CGN 700)	0.434	sq.m.	5,972.00	817,937.42	136.96
622(2)	Bio-Engineering Coco Fascine Erosion Control System	0.354	ln.m.	1,340.00	667,262.20	497.96
622(3)	Bio-Engineered Erosion Control System (vegetation)	1.769	sq.m.	20,848.00	3,334,112.23	159.92
TOTAL		100.000			P 188,440,667.57	