

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 :

<p>NAME/LOCATION OF PROJECT :</p> <p style="text-align: center;">CONSTRUCTION/REHABILITATION OF CONCRETE ROAD SUNSET BOULEVARD, DAPITAN CITY, ZAMBOANGA DEL NORTE, 3RD DEO</p>	<p>Appropriation : P 100,000,000.00</p> <p>Source of Funds : CY-2018</p> <p>Issued Obligated Authority :</p> <p>Released :</p>
<p>PROJECT CATEGORY :</p> <p style="text-align: center;">NATIONAL ROAD</p>	<p>Cal. Days to Complete : 230 Calendar Days</p> <p>Desirable Starting Date : Upon Approval</p> <p>Mode of Implementation :</p>
<p>PROJECT DESCRIPTION :</p> <p>Scope of Work : Road Construction/Rehabilitation</p> <p>Road Width : 6.10 mtrs. (PCCP thick .28m)</p> <p style="padding-left: 20px;">: 8.20 mtrs. (PCCP thick .28m)</p> <p>Subbase Course : 0.30 m. thick</p> <p>Surface Course : 0.15 m. thick</p>	<p>NET LENGTH :</p> <p style="padding-left: 20px;">K 01 + 260.00 - K 03 + 321.00, K00 +460.00 - K 03 + 321.00</p> <p style="padding-left: 20px;">K 01 + 260.00 - K 03 + 321.00 (L = 2,061 lane km.,Rehab.)</p> <p style="padding-left: 20px;">K 00 + 460.00 - K 03 + 321.00 (L= 2,861 lane km.,Widening)</p> <p>Net Length : 2,861.000 In.m. 4.922 lane.km.</p>

MINIMUM EQUIPMENT REQUIREMENT :

TECHNICAL PERSONNEL REQUIRED :

Description	No.	Description	No.	Description	No.
Dumptruck (10-Wheeler)	12	Water Pump	1	Project Engineer	1
Transit Mixer	4	Concrete Vibrator	2	Materials Engineer	1
Bulldozer	2	Concrete Cutter	2	Geometric Surveyor	1
Backhoe	3	Bar Cutter	1	Foreman	1
Road Grader	2	Bar Bender	1	Materials Lab. Tech.	1
Road Roller	2	Conc. Mixer (1-Bagger)	2	Mason	10
Payloader	4	Plate Compactor	1	Carpenter	6
Water Truck	2	Batching Plant	1	Laborers (Skilled)	10
Water Tank	2	Backhoe w/ breaker	1	Laborers (Unskilled)	20

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 Field Office for the Engineer	0.657	L. S.	1.00	488,025.88	488,025.88
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for the Field Office for the Engineers	0.270	L. S.	1.00	200,598.00	200,598.00
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	0.370	L.S.	1.00	275,054.33	275,054.33
PART B - OTHER GENERAL REQUIREMENTS						
B.5	Project Billboard	0.009	units	2.00	6,540.90	3,270.45
B.7	Occupational Safety and Health Program	0.618	L. S.	1.00	459,510.00	459,510.00
B.4 (1)	Construction Survey and Staking	0.103	km.	2.86	76,681.76	26,802.43
B.9	Mobilization & Demobilization	0.826	L. S.	1.00	613,434.50	613,434.50
PART C - EARTHWORK						
101(3)b3	Removal of Extg. PCCP	1.303	sq.m.	12,572.00	967,908.85	76.99
102(2)	Surplus Common Excavation	0.359	cu.m.	1,885.50	266,796.13	141.50
105(1)a	Subgrade Preparation	0.939	sq.m.	43,642.50	697,341.69	15.98
PART C - AGGREGATE SUBBASE COURSE						
200(1)	Aggregate Subbase Course, 0.30 m. thick	18.753	cu. m.	13,517.50	13,934,122.87	1,030.82
PART D - AGGREGATE SURFACE COURSE						
300(1)	Gravel Surface Course, 0.15m. Thick	1.975	cu. m.	1,191.00	1,467,396.56	1,232.07
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	71.210	sq. m.	36,032.00	52,911,509.09	1,468.46
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	0.210	sq. m.	181.50	156,077.28	859.93
PART G - MISCELLANEOUS STRUCTURES STRUCTURES						
612(1)	Reflectorized Thermoplastic Pavement Marking, White	2.399	sq.m.	2,312.00	1,782,208.42	770.85
TOTAL		100.000			P 74,303,206.26	

NAME OF PROJECT : CONSTRUCTION/REHABILITATION OF CONCRETE ROAD SUNSET BOULEVARD,
DAPITAN CITY, ZAMBOANGA DEL NORTE, 3RD DEO

K 01 + 260.00 - K 03 + 321.00, K00 +460.00 - K 03 + 321.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Materials	61.46	61,459,003.07
A.2. Labor	1.23	1,234,294.32
A.3. Equipment Expenses	11.61	11,609,908.87
SUB-TOTAL (DIRECT COST)	74.30	P 74,303,206.26
B. INDIRECT COST (Per D.O. # 57)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	7.28	7,275,460.94
B.2. Profit (8 % Max. of D.C.)	5.87	5,873,177.39
C. VAT (5 % of D.C. and I.C. Per D.O. # 197 S.2016)	4.37	4,372,592.23
SUBTOTAL (CONTRACT COST)	91.82	P 91,824,436.83
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.5%)	3.50	3,500,000.00
2. Detailed Engineering (1%)	0.00	
3. Reserved for the Payment of RROW	0.00	
4. Physical Reserve	4.68	4,675,563.17
TOTAL ESTIMATED PROJECT COST	100.00	P 100,000,000.00

Prepared :

Checked :

JOSEPHINE B. RENGQUIJO

Engineer II

JERALD R. BARRERA

Engineer II

Submitted :

Recommending Approval:

LEONCIO B. SOLAMILLO

Chief, Construction Division

CAYAMOMBAO D. DIA

OIC-Assistant Regional Director

Approved:

JORGE U. SEBASTIAN, JR., CESO III

Regional Director

APPROVED BUDGET FOR THE CONTRACT

CONSTRUCTION/REHABILITATION OF CONCRETE ROAD SUNSET BOULEVARD, DAPITAN CITY, ZAMBOANGA DEL NORTE, 3RD DEO

Project Name and Location

Stations : K 01 + 260.00 - K 03 + 321.00, K00 +460.00 - K 03 + 321.00

Length : 2,861.00

Contract Duration : **230 Calendar Days**

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)	(10)	(11)	(12)	(13)
									5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PART A - FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction Field Office for the Engineer	1.00	L. S.	488,025.88	10.00	8.00	18.00	87,844.66	28,793.53	116,638.19	604,664.07	604,664.07
A.1.1(11)	Provision of Furnitures/Fixtures,Equipment and Appliances for the Field Office for the Engineers	1.00	L. S.	200,598.00		8.00	8.00	16,047.84	10,832.29	26,880.13	227,478.13	227,478.13
A. 1.2	Operation and Maintenance of Gov't Service Vehicle	1.00	L.S.	275,054.33			0.00	-	13,752.72	13,752.72	288,807.05	288,807.05
PART B - OTHER GENERAL REQUIREMENTS												
B.5	Project Billboard	2.00	units	6,540.90	10.00	8.00	18.00	1,177.36	385.91	1,563.28	8,104.18	4,052.09
B.7	Occupational Safety and Health Program	1.00	L. S.	459,510.00		8.00	8.00	36,760.80	24,813.54	61,574.34	521,084.34	521,084.34
B.4 (1)	Construction Survey and Staking	2.86	km.	76,681.76	10.00	8.00	18.00	13,802.72	4,524.22	18,326.94	95,008.71	33,208.22
B.9	Mobilization & Demobilization	1.00	L. S.	613,434.50			0.00	-	30,671.73	30,671.73	644,106.23	644,106.23
PART C - EARTHWORK												
101 (3)b3	Removal of Extg. PCCP	12,572.00	sq.m.	967,908.85	10.00	8.00	18.00	174,223.59	57,106.62	231,330.22	1,199,239.07	95.39
102(2)	Surplus Common Excavation	1,885.50	cu.m.	266,796.13	10.00	8.00	18.00	48,023.30	15,740.97	63,764.27	330,560.40	175.32
105(1)a	Subgrade Preparation	43,642.50	sq.m.	697,341.69	10.00	8.00	18.00	125,521.50	41,143.16	166,664.66	864,006.35	19.80
PART C - AGGREGATE SUBBASE COURSE												
200(1)	Aggregate Subbase Course, 0.30 m. thick	13,517.50	cu. m.	13,934,122.87	10.00	8.00	18.00	2,508,142.12	822,113.25	3,330,255.37	17,264,378.23	1,277.19
PART D - AGGREGATE SURFACE COURSE												
300(1)	Gravel Surface Course, 0.15m. Thick	1,191.00	cu. m.	1,467,396.56	10.00	8.00	18.00	264,131.38	86,576.40	350,707.78	1,818,104.34	1,526.54
311(1)e1	Portland Cement Concrete Pavement, 0.28 m. thick	36,032.00	sq. m.	52,911,509.09	10.00	8.00	18.00	9,524,071.64	3,121,779.04	12,645,850.67	65,557,359.76	1,819.42
311(1)a	Portland Cement Concrete Pavement, 0.15 m thick	181.50	sq. m.	156,077.28	10.00	8.00	18.00	28,093.91	9,208.56	37,302.47	193,379.75	1,065.45
PART G - MISCELLANEOUS STRUCTURES STRUCTURES												
612(1)	Reflectorized Thermoplastic Pavement Marking, White	2,312.00	sq.m.	1,782,208.42	10.00	8.00	18.00	320,797.52	105,150.30	425,947.81	2,208,156.24	955.08
											74,303,206.26	91,824,436.83

Prepared /Submitted by :

Recommending Approval:

Approved :

BELEN A. SAPALLEDA
Engineer IV - Chairman Estimating Committee

CAYAMOMBAO D. DIA
OIC - Assistant Regional Director

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