

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 : _____	
NAME OF PROJECT : Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City LOCATION: Zamboanga City PROJECT CATEGORY : NATIONAL ROAD	Appropriation : P 150,000,000.00 Source of Funds : CY-2018 GAA Issued Obligated Authority : _____ Released : _____ Cal. Days to Complete : 260 Calendar Days Desirable Starting Date : upon approval Mode of Implementation : by contract
PROJECT DESCRIPTION : Scope of Work : Road Widening Road Width : 6.70 m. Roadbed Width : 12.00 m. Subbase Course : 0.30 m. thk. Surface Course : 0.15 m. thk.	
Station Limits: I 1958+289.34 - 1961+897.50 Length 3,608.16 Net Length: 3,608.16 In.m. / 3.61 km. Lane Kilometer: 7.22 km.	

MINIMUM EQUIPMENT REQUIREMENT :			TECHNICAL PERSONNEL REQUIRED :		
Description	No.	Description	No.	Description	No.
Dump Truck	12	Water Pump	1	Project Engineer	1
Transit Mixer	4	Concrete Screeder	1	Materials Engineer	1
Bulldozer	2	Concrete Vibrator	2	Geometric Surveyor	1
Backhoe	3	Concrete Cutter	2	Foreman	1
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1
Road Roller	2	Bar Bender	1	Mason	12
Payloader	4	One Bagger Mixer	2	Carpenter	8
Water Truck	2	Batching Plant	1	Laborers (Skilled)	20
Water Tank	2	Plate Compactor	1	Laborers (Unskilled)	30
Kneading Machine	1	Cargo Truck	1	Safety Practitioner	1
Applicator Machine	1				

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	0.51	L.S.	1.00	389,216.97	389,216.97
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.43	L.S.	1.00	324,006.67	324,006.67
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.36	month	8.67	272,493.20	31,441.52
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey & Staking	0.70	km.	3.61	534,036.44	148,007.97
B.5	Project Billboard/Signboard	0.01	each	2.00	10,809.20	5,404.60
B.7	Occupation Safety and Health Program	0.37	month	8.67	281,541.60	32,485.57
B.9	Mobilization & Demobilization	0.99	L.S.	1.00	753,535.00	753,535.00
PART C - EARTHWORKS						
101(2)	Removal of Actual Structures/Obstruction	0.02	each	5.00	18,087.84	3,617.57
101(3)b2	Removal of Actual Structures/Obstruction	2.61	cu.m.	15,024.50	1,982,957.12	131.98
101(4)a2	Removal of Actual Structures/Obstruction	0.02	ln.m.	35.00	15,569.44	444.84
101(6)	Removal of Actual Structures/Obstruction	0.13	cu.m.	70.50	100,681.05	1,428.10
102(2)	Surplus Common Excavation	1.07	cu.m.	5,679.50	809,073.17	142.46
103(1)a	Structure Excavation	0.77	cu.m.	2,540.00	581,892.41	229.09
103(3)	Foundation Fill	0.02	cu.m.	10.00	17,190.59	1,719.06
103(6)a	Pipe Culverts and Drain Excavation	0.03	cu.m.	85.50	19,674.89	230.12
104(1)a	Embankment from Roadway Excavation	1.56	cu.m.	5,133.50	1,183,601.47	230.56
105(1)a	Subgrade Preparation	0.54	sq.m.	25,735.00	411,206.70	15.98

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 : _____

NAME OF PROJECT : Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City LOCATION: Zamboanga City PROJECT CATEGORY : NATIONAL ROAD	<table style="width: 100%;"> <tr> <td>Appropriation</td> <td>:</td> <td>P</td> <td>150,000,000.00</td> </tr> <tr> <td>Source of Funds</td> <td>:</td> <td colspan="2">CY-2018 GAA</td> </tr> <tr> <td>Issued Obligated Authority</td> <td>:</td> <td colspan="2"></td> </tr> <tr> <td>Released</td> <td>:</td> <td colspan="2"></td> </tr> <tr> <td>Cal. Days to Complete</td> <td>:</td> <td>260</td> <td>Calendar Days</td> </tr> <tr> <td>Desirable Starting Date</td> <td>:</td> <td colspan="2">upon approval</td> </tr> <tr> <td>Mode of Implementation</td> <td>:</td> <td colspan="2">by contract</td> </tr> </table>	Appropriation	:	P	150,000,000.00	Source of Funds	:	CY-2018 GAA		Issued Obligated Authority	:			Released	:			Cal. Days to Complete	:	260	Calendar Days	Desirable Starting Date	:	upon approval		Mode of Implementation	:	by contract	
Appropriation	:	P	150,000,000.00																										
Source of Funds	:	CY-2018 GAA																											
Issued Obligated Authority	:																												
Released	:																												
Cal. Days to Complete	:	260	Calendar Days																										
Desirable Starting Date	:	upon approval																											
Mode of Implementation	:	by contract																											
PROJECT DESCRIPTION : Scope of Work : Road Widening Road Width : 6.70 m. Roadbed Width : 12.00 m. Subbase Course : 0.30 m. thk. Surface Course : 0.15 m. thk.																													
<table style="width: 100%;"> <tr> <td colspan="2">Station Limits:</td> <td colspan="2">Length</td> </tr> <tr> <td>1</td> <td>1958+289.34</td> <td>-</td> <td>1961+897.50</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">3,608.16</td> </tr> <tr> <td colspan="2">Net Length:</td> <td colspan="2">3,608.16 In.m. / 3.61 km.</td> </tr> <tr> <td colspan="2">Lane Kilometer:</td> <td colspan="2">7.22 km.</td> </tr> </table>		Station Limits:		Length		1	1958+289.34	-	1961+897.50			3,608.16		Net Length:		3,608.16 In.m. / 3.61 km.		Lane Kilometer:		7.22 km.									
Station Limits:		Length																											
1	1958+289.34	-	1961+897.50																										
		3,608.16																											
Net Length:		3,608.16 In.m. / 3.61 km.																											
Lane Kilometer:		7.22 km.																											

MINIMUM EQUIPMENT REQUIREMENT :				TECHNICAL PERSONNEL REQUIRED :	
Description	No.	Description	No.	Description	No.
Dump Truck	12	Water Pump	1	Project Engineer	1
Transit Mixer	4	Concrete Screeder	1	Materials Engineer	1
Bulldozer	2	Concrete Vibrator	2	Geometric Surveyor	1
Backhoe	3	Concrete Cutter	2	Foreman	1
Road Grader	2	Bar Cutter	1	Materials Lab. Tech.	1
Road Roller	2	Bar Bender	1	Mason	12
Payloader	4	One Bagger Mixer	2	Carpenter	8
Water Truck	2	Batching Plant	1	Laborers (Skilled)	20
Water Tank	2	Plate Compactor	1	Laborers (Unskilled)	30
Kneading Machine	1	Cargo Truck	1	Safety Practitioner	1
Applicator Machine	1				

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	0.51	L.S.	1.00	389,216.97	389,216.97
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	0.43	L.S.	1.00	324,006.67	324,006.67
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	0.36	month	8.67	272,493.20	31,441.52
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey & Staking	0.70	km.	3.61	534,036.44	148,007.97
B.5	Project Billboard/Signboard	0.01	each	2.00	10,809.20	5,404.60
B.7	Occupation Safety and Health Program	0.37	month	8.67	281,541.60	32,485.57
B.9	Mobilization & Demobilization	0.99	L.S.	1.00	753,535.00	753,535.00
PART C - EARTHWORKS						
101(2)	Removal of Actual Structures/Obstruction	0.02	each	5.00	18,087.84	3,617.57
101(3)b2	Removal of Actual Structures/Obstruction	2.61	cu.m.	15,024.50	1,982,957.12	131.98
101(4)a2	Removal of Actual Structures/Obstruction	0.02	ln.m.	35.00	15,569.44	444.84
101(6)	Removal of Actual Structures/Obstruction	0.13	cu.m.	70.50	100,681.05	1,428.10
102(2)	Surplus Common Excavation	1.07	cu.m.	5,679.50	809,073.17	142.46
103(1)a	Structure Excavation	0.77	cu.m.	2,540.00	581,892.41	229.09
103(3)	Foundation Fill	0.02	cu.m.	10.00	17,190.59	1,719.06
103(6)a	Pipe Culverts and Drain Excavation	0.03	cu.m.	85.50	19,674.89	230.12
104(1)a	Embankment from Roadway Excavation	1.56	cu.m.	5,133.50	1,183,601.47	230.56
105(1)a	Subgrade Preparation	0.54	sq.m.	25,735.00	411,206.70	15.98

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course	21.42	cu.m.	13,262.00	16,244,404.98	1,224.88
PART E - SURFACE COURSES						
300(1)	Gravel Surface Course	0.87	cu.m.	510.00	656,948.09	1,288.13
311(1)e1	Portland Cement Concrete Pavement	0.74	sq.m.	354.00	558,975.27	1,579.03
311(1)c1	Portland Cement Concrete Pavement	40.89	sq.m.	23,840.00	31,008,188.47	1,300.68
311(1)a	Portland Cement Concrete Pavement	9.76	sq.m.	8,505.00	7,401,139.05	870.21
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
404(1)a	Reinforcing Steel	2.58	kg.	41,550.50	1,957,803.01	47.12
404(1)b	Reinforcing Steel	0.13	kg.	2,028.00	99,815.40	49.22
405(1)a3	Structural Concrete, Class "A"	10.66	cu.m.	1,185.00	8,085,004.03	6,822.79
407(8)	Lean Concrete	0.07	cu.m.	10.50	52,814.81	5,029.98
500(1)b1	Pipe Culverts	0.06	ln.m.	18.00	46,494.42	2,583.02
500(1)b3	Pipe Culverts	0.29	ln.m.	75.00	217,968.21	2,906.24
502(3)a1	Catch Basin	0.18	each	6.00	137,766.35	22,961.06
502(4)a1	Concrete Cover	0.05	each	6.00	35,963.35	5,993.89
503(1)	Metal Frame & Grating	0.04	set	6.00	28,776.41	4,796.07
505(2)a	Grouted Riprap, Class "A"	0.09	cu.m.	21.00	70,775.33	3,370.25
506(1)	Stone Masonry	0.55	cu.m.	103.00	418,744.21	4,065.48
PART H - MISCELLANEOUS STRUCTURES						
600(3)	Concrete Curb & Gutter	0.14	ln.m.	122.00	109,785.45	899.88
601(1)	Sidewalk	0.19	sq.m.	244.00	140,794.10	577.03
605(2)z2	Regulatory Signs (R5-4C)	0.03	each	2.00	19,702.69	9,851.34
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.82	sq.m.	838.00	619,386.52	739.12
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.29	sq.m.	268.50	218,661.96	814.38
TOTAL		100.00			P 75,835,485.87	

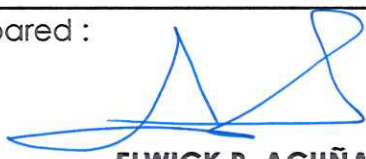
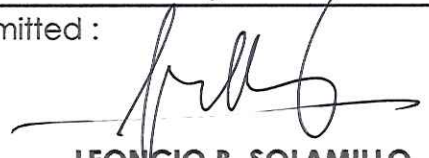
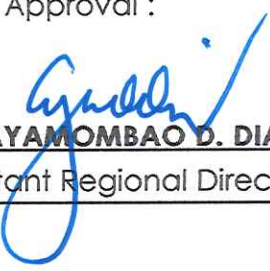
W

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course	21.42	cu.m.	13,262.00	16,244,404.98	1,224.88
PART E - SURFACE COURSES						
300(1)	Gravel Surface Course	0.87	cu.m.	510.00	656,948.09	1,288.13
311(1)e1	Portland Cement Concrete Pavement	0.74	sq.m.	354.00	558,975.27	1,579.03
311(1)c1	Portland Cement Concrete Pavement	40.89	sq.m.	23,840.00	31,008,188.47	1,300.68
311(1)a	Portland Cement Concrete Pavement	9.76	sq.m.	8,505.00	7,401,139.05	870.21
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES						
404(1)a	Reinforcing Steel	2.58	kg.	41,550.50	1,957,803.01	47.12
404(1)b	Reinforcing Steel	0.13	kg.	2,028.00	99,815.40	49.22
405(1)a3	Structural Concrete, Class "A"	10.66	cu.m.	1,185.00	8,085,004.03	6,822.79
407(8)	Lean Concrete	0.07	cu.m.	10.50	52,814.81	5,029.98
500(1)b1	Pipe Culverts	0.06	ln.m.	18.00	46,494.42	2,583.02
500(1)b3	Pipe Culverts	0.29	ln.m.	75.00	217,968.21	2,906.24
502(3)a1	Catch Basin	0.18	each	6.00	137,766.35	22,961.06
502(4)a1	Concrete Cover	0.05	each	6.00	35,963.35	5,993.89
503(1)	Metal Frame & Grating	0.04	set	6.00	28,776.41	4,796.07
505(2)a	Grouted Riprap, Class "A"	0.09	cu.m.	21.00	70,775.33	3,370.25
506(1)	Stone Masonry	0.55	cu.m.	103.00	418,744.21	4,065.48
PART H - MISCELLANEOUS STRUCTURES						
600(3)	Concrete Curb & Gutter	0.14	ln.m.	122.00	109,785.45	899.88
601(1)	Sidewalk	0.19	sq.m.	244.00	140,794.10	577.03
605(2)z2	Regulatory Signs (R5-4C)	0.03	each	2.00	19,702.69	9,851.34
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.82	sq.m.	838.00	619,386.52	739.12
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.29	sq.m.	268.50	218,661.96	814.38
TOTAL		100.00			P 75,835,485.87	

NAME OF PROJECT : Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Zamboanga City

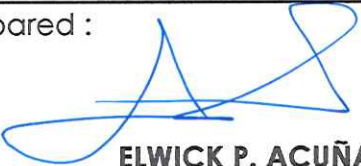
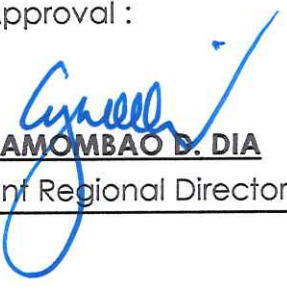
BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	1.51	2,265,602.35
A.2. Equipment Expenses	8.91	13,363,863.84
A.3. Materials	40.14	60,206,019.68
SUB-TOTAL (DIRECT COST)	50.56	P 75,835,485.87
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	4.95	7,420,390.94
B.2. Profit (8 % Max. of D.C.)	3.99	5,984,756.61
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	2.97	4,462,031.67
SUBTOTAL (CONTRACT COST)	62.47	P 93,702,665.10
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		
4. Physical Reserved	34.03	51,047,334.90
TOTAL ESTIMATED PROJECT COST	100.00	P 150,000,000.00

Prepared :  ELWICK P. ACUÑA Engineer II	Checked :  JERALD R. BARRERA Engineer II
Submitted :  LEONCIO B. SOLAMILLO Chief, Construction Division	Recommending Approval :  CAYAMOMBAO D. DIA Assistant Regional Director
Approved :  JORGE U. SEBASTIAN, JR., CESO III Regional Director	

NAME OF PROJECT : Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Zamboanga City

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Labor	1.51	2,265,602.35
A.2. Equipment Expenses	8.91	13,363,863.84
A.3. Materials	40.14	60,206,019.68
SUB-TOTAL (DIRECT COST)	50.56	P 75,835,485.87
B. INDIRECT COST (Per D.O. # 197, s. 2016)		
B.1. Overhead, Contingency & Misc. (10 % Max. of D.C.)	4.95	7,420,390.94
B.2. Profit (8 % Max. of D.C.)	3.99	5,984,756.61
C. VAT (5% of D.C. and I.C. Per D.O. # 197, s. 2016)	2.97	4,462,031.67
SUBTOTAL (CONTRACT COST)	62.47	P 93,702,665.10
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		
4. Physical Reserved	34.03	51,047,334.90
TOTAL ESTIMATED PROJECT COST	100.00	P 150,000,000.00

Prepared :  ELWICK P. ACUÑA Engineer II	Checked :  JERALD R. BARRERA Engineer II
Submitted :  LEONCIO B. SOLAMILLO Chief, Construction Division	Recommending Approval :  CAYAMOMBAO D. DIA Assistant Regional Director
Approved :  JORGE U. SEBASTIAN, JR., CESO III Regional Director	

APPROVED BUDGET FOR THE CONTRACT

Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road leading to La Paz Resort, Zamboanga City

Stations : 1958+289.34 to 1961+897.50

Length : 3,608.16 In.m.

Contract Duration : 260 CD

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %	PROFIT	%	TOTAL MARK-UPS VALUE	VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
(1)	(2)	(3)	(4)	(5)	OCM	(7)	(8)	(9)	(10)	(11)	(12)	(13)
								(5) x (8)	5% (5) + (9)	(9) + (10)	(5) + (11)	(12) / (3)
PART A - FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer	1.00	L.S.	389,216.97	10.00	8.00	18.00	70,059.06	22,943.80	93,022.86	482,239.83	482,239.83
A.1.1(11)	Provision of Furniture/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	324,006.67	-	8.00	8.00	25,920.53	17,496.36	43,416.89	367,423.56	367,423.56
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	8.67	month	272,493.20	-	-	-	-	13,624.66	13,624.66	286,117.86	33,013.60
TOTAL OF PART A												
				985,716.84				95,979.59	54,084.82	150,064.41	1,135,781.25	
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey & Staking	3.61	km.	534,036.44	10.00	8.00	18.00	96,126.56	31,508.15	127,634.71	661,671.15	183,381.88
B.5	Project Billboard/Signboard	2.00	each	10,809.20	10.00	8.00	18.00	1,945.66	637.74	2,583.40	13,392.60	6,696.30
B.7	Occupation Safety and Health Program	8.67	month	281,541.60	-	8.00	8.00	22,523.33	15,203.25	37,726.57	319,268.17	36,838.64
B.9	Mobilization & Demobilization	1.00	L.S.	753,535.00	-	-	-	-	37,676.75	37,676.75	791,211.75	791,211.75
TOTAL OF PART B												
				1,579,922.24				120,595.54	85,025.89	205,621.43	1,785,543.68	
PART C - EARTHWORKS												
101(2)	Removal of Actual Structures/Obstruction	5.00	each	18,087.84	10.00	8.00	18.00	3,255.81	1,067.18	4,322.99	22,410.83	4,482.17
101(3b2)	Removal of Actual Structures/Obstruction	15,024.50	cum.	1,982,957.12	10.00	8.00	18.00	356,932.28	116,994.47	473,926.75	2,456,883.87	163.53
101(4a2)	Removal of Actual Structures/Obstruction	35.00	In.m.	15,569.44	10.00	8.00	18.00	2,802.50	918.60	3,721.09	19,290.53	551.16
101(6)	Removal of Actual Structures/Obstruction	70.50	cum.	100,681.05	10.00	8.00	18.00	18,122.59	5,940.18	24,062.77	124,743.82	1,769.42
102(2)	Surplus Common Excavation	5,679.50	cum.	809,073.17	10.00	8.00	18.00	145,633.17	47,735.32	193,368.49	1,002,441.66	176.50
103(1)a	Structure Excavation	2,540.00	cum.	581,892.41	10.00	8.00	18.00	104,740.63	34,331.65	139,072.29	720,964.70	283.84
103(3)	Foundation Fill	10.00	cum.	17,190.59	10.00	8.00	18.00	3,094.31	1,014.24	4,108.55	21,299.14	2,129.91
103(6)a	Pipe Culverts and Drain Excavation	85.50	cum.	19,674.89	10.00	8.00	18.00	3,541.48	1,160.82	4,702.30	24,377.19	285.11
104(1)a	Embankment from Roadway Excavation	5,133.50	cum.	1,183,601.47	10.00	8.00	18.00	213,048.27	69,832.49	282,880.75	1,466,482.23	285.67
105(1)a	Subgrade Preparation	25,735.00	sq.m.	411,206.70	10.00	8.00	18.00	74,017.21	24,261.20	98,278.40	509,485.10	19.80
TOTAL OF PART C												
				5,139,934.68				925,188.24	303,256.15	1,228,444.39	6,368,379.07	
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course	13,282.00	cum.	16,244,404.98	10.00	8.00	18.00	2,923,992.90	958,419.89	3,882,412.79	20,126,817.77	1,517.63
TOTAL OF PART D												
				16,244,404.98				2,923,992.90	958,419.89	3,882,412.79	20,126,817.77	
PART E - SURFACE COURSES												
300(1)	Gravel Surface Course	510.00	cum.	656,948.09	10.00	8.00	18.00	118,250.66	38,759.94	157,010.59	813,958.68	1,596.00
311(1)e	Portland Cement Concrete Pavement	354.00	sq.m.	558,975.27	10.00	8.00	18.00	100,615.55	32,979.54	133,595.09	692,570.36	1,956.41
311(1)c	Portland Cement Concrete Pavement	23,840.00	sq.m.	31,008,188.47	10.00	8.00	18.00	5,581,473.92	1,829,483.12	7,410,957.04	38,419,145.51	1,611.54
311(1)a	Portland Cement Concrete Pavement	8,505.00	sq.m.	7,401,139.05	10.00	8.00	18.00	1,332,205.03	436,667.20	1,768,872.23	9,170,011.28	1,078.19
TOTAL OF PART E												
				39,625,250.87				7,132,545.16	2,337,889.80	9,470,434.96	49,095,685.83	
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES												
404(1)a	Reinforcing Steel	41,550.50	kg.	1,957,803.01	10.00	8.00	18.00	352,404.54	115,510.38	467,914.92	2,425,717.92	58.38
404(1)b	Reinforcing Steel	2,028.00	kg.	99,815.40	10.00	8.00	18.00	17,966.77	5,889.11	23,855.88	123,671.28	60.98
405(1)a3	Structural Concrete, Class "A"	1,185.00	cum.	8,085,004.03	10.00	8.00	18.00	1,455,300.73	477,015.24	1,932,315.96	10,017,320.00	8,453.43
407(8)	Lean Concrete	10.50	cum.	52,814.81	10.00	8.00	18.00	9,506.67	3,116.07	12,622.74	65,437.55	6,232.15
500(1)b1	Pipe Culverts	18.00	In.m.	46,494.42	10.00	8.00	18.00	8,369.00	2,743.17	11,112.17	57,606.59	3,200.37
500(1)b3	Pipe Culverts	75.00	In.m.	217,968.21	10.00	8.00	18.00	39,234.28	12,860.12	52,094.40	270,062.61	3,600.83
502(3)a	Catch Basin	6.00	each	137,766.35	10.00	8.00	18.00	24,797.94	8,128.21	32,926.16	170,692.51	28,448.75
502(4)a	Concrete Cover	6.00	each	35,963.35	10.00	8.00	18.00	6,473.40	2,121.84	8,595.24	44,558.59	7,426.43
503(1)	Metal Frame & Grating	6.00	set	28,776.41	10.00	8.00	18.00	5,179.75	1,697.81	6,877.56	35,653.97	5,942.33
505(2)a	Grouted Riprap, Class "A"	21.00	cum.	70,775.33	10.00	8.00	18.00	12,739.56	4,175.74	16,915.30	87,690.63	4,175.74
506(1)	Stone Masonry	103.00	cum.	418,744.21	10.00	8.00	18.00	75,373.96	24,705.91	100,079.87	518,824.07	5,037.13
TOTAL OF PART G												
				11,151,925.54				2,007,346.60	657,983.61	2,665,330.20	13,817,235.74	

APPROVED BUDGET FOR THE CONTRACT

Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRI Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Stations: 1958+289.34 to 1961+897.50

Length: 3,608.16 In.m.

Contract Duration: 240 CD

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN % OCM	PROFIT	%	TOTAL MARK-UPS VALUE	VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) x (8)	(10)	(9) + (10)	(12)	(13)
PART A - FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer	1.00	L.S.	389,216.97	10.00	8.00	18.00	70,059.06	22,943.80	93,022.86	482,239.83	482,239.83
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	324,006.67	-	8.00	8.00	25,920.53	17,496.36	43,416.89	367,423.56	367,423.56
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	8.67	month	272,493.20	-	-	-	-	13,624.66	13,624.66	286,117.86	33,013.60
TOTAL OF PART A				985,716.84				95,979.59	54,084.82	150,064.41	1,135,781.25	
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey & Staking	3.61	km.	534,036.44	10.00	8.00	18.00	96,126.56	31,508.15	127,634.71	661,671.15	183,381.88
B.5	Project Billboard/Signboard	2.00	each	10,809.20	10.00	8.00	18.00	1,945.66	637.74	2,583.40	13,392.60	6,696.30
B.7	Occupational Safety and Health Program	8.67	month	281,541.60	-	8.00	8.00	22,523.33	15,203.25	37,726.57	319,268.17	36,838.64
B.9	Mobilization & Demobilization	1.00	L.S.	753,535.00	-	-	-	-	37,676.75	37,676.75	791,211.75	791,211.75
TOTAL OF PART B				1,579,922.24				120,595.54	85,025.89	205,621.43	1,785,543.68	
PART C - EARTHWORKS												
101(2)	Removal of Actual Structures/Obstruction	5.00	each	18,087.84	10.00	8.00	18.00	3,255.81	1,067.18	4,322.99	22,410.83	4,482.17
101(3)b2	Removal of Actual Structures/Obstruction	15,024.50	cum.	1,982,957.12	10.00	8.00	18.00	356,932.28	116,994.47	473,926.75	2,456,883.87	163.53
101(4)a2	Removal of Actual Structures/Obstruction	35.00	In.m.	15,569.44	10.00	8.00	18.00	2,802.50	918.60	3,721.09	19,290.53	551.16
101(6)	Removal of Actual Structures/Obstruction	70.50	cum.	100,681.05	10.00	8.00	18.00	18,122.59	5,940.18	24,062.77	124,743.82	1,769.42
102(2)	Surplus Common Excavation	5,679.50	cum.	809,073.17	10.00	8.00	18.00	145,633.17	47,735.32	193,368.49	1,002,441.66	176.50
103(1)a	Structure Excavation	2,540.00	cum.	581,892.41	10.00	8.00	18.00	104,740.63	34,331.65	139,072.29	720,964.70	283.84
103(3)	Foundation Fill	10.00	cum.	17,190.59	10.00	8.00	18.00	3,094.31	1,014.24	4,108.55	21,299.14	2,129.91
103(6)a	Pipe Culverts and Drain Excavation	85.50	cum.	19,674.89	10.00	8.00	18.00	3,541.48	1,140.82	4,702.30	24,377.19	285.11
104(1)a	Embankment from Roadway Excavation	5,133.50	cum.	1,183,601.47	10.00	8.00	18.00	213,048.27	69,832.49	282,880.75	1,466,482.23	285.67
105(1)a	Subgrade Preparation	25,735.00	sq.m.	411,206.70	10.00	8.00	18.00	74,017.21	24,261.20	98,278.40	509,485.10	19.80
TOTAL OF PART C				5,139,934.68				925,188.24	303,256.15	1,228,444.39	6,368,379.07	
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course	13,262.00	cum.	16,244,404.98	10.00	8.00	18.00	2,923,992.90	958,419.89	3,882,412.79	20,126,817.77	1,517.63
TOTAL OF PART D				16,244,404.98				2,923,992.90	958,419.89	3,882,412.79	20,126,817.77	
PART E - SURFACE COURSES												
300(1)	Gravel Surface Course	510.00	cum.	656,948.09	10.00	8.00	18.00	118,250.66	38,759.94	157,010.59	813,958.68	1,596.00
311(1)e1	Portland Cement Concrete Pavement	354.00	sq.m.	558,975.27	10.00	8.00	18.00	100,615.55	32,979.54	133,595.09	692,570.36	1,956.41
311(1)c1	Portland Cement Concrete Pavement	23,840.00	sq.m.	31,008,188.47	10.00	8.00	18.00	5,581,473.92	1,829,483.12	7,410,957.04	38,419,145.51	1,611.54
311(1)a	Portland Cement Concrete Pavement	8,505.00	sq.m.	7,401,139.05	10.00	8.00	18.00	1,332,205.03	436,667.20	1,768,872.23	9,170,011.28	1,078.19
TOTAL OF PART E				39,625,250.87				7,132,545.16	2,337,889.80	9,470,434.96	49,095,685.83	
PART G - DRAINAGE AND SLOPE PROTECTION STRUCTURES												
404(1)a	Reinforcing Steel	41,550.50	kg.	1,957,803.01	10.00	8.00	18.00	352,404.54	115,510.38	467,914.92	2,425,717.92	58.38
404(1)b	Reinforcing Steel	2,028.00	kg.	99,815.40	10.00	8.00	18.00	17,966.77	5,889.11	23,855.88	123,671.28	60.98
405(1)a3	Structural Concrete, Class "A"	1,185.00	cum.	8,085,004.03	10.00	8.00	18.00	1,455,300.73	477,015.24	1,932,315.96	10,017,320.00	8,453.43
407(8)	Lean Concrete	10.50	cum.	52,814.81	10.00	8.00	18.00	9,506.67	3,116.07	12,622.74	65,437.55	6,232.15
500(1)b1	Pipe Culverts	18.00	In.m.	46,494.42	10.00	8.00	18.00	8,349.00	2,743.17	11,112.17	57,606.59	3,200.37
500(1)b3	Pipe Culverts	75.00	In.m.	217,948.21	10.00	8.00	18.00	39,234.28	12,840.12	52,094.40	270,062.61	3,600.83
502(3)a1	Catch Basin	6.00	each	137,766.35	10.00	8.00	18.00	24,797.94	8,128.21	32,926.16	170,692.51	28,448.75
502(4)a1	Concrete Cover	6.00	each	35,963.35	10.00	8.00	18.00	6,473.40	2,121.84	8,595.24	44,558.59	7,426.43
503(1)	Metal Frame & Grating	6.00	set	28,776.41	10.00	8.00	18.00	5,179.75	1,697.81	6,877.56	35,653.97	5,942.33
505(2)a	Grouled Riprap, Class "A"	21.00	cum.	70,775.33	10.00	8.00	18.00	12,739.56	4,175.74	16,915.30	87,690.63	4,175.74
506(1)	Stone Masonry	103.00	cum.	418,744.21	10.00	8.00	18.00	75,373.96	24,705.91	100,079.87	518,824.07	5,037.13
TOTAL OF PART G				11,151,925.64				2,007,346.60	657,963.61	2,665,310.20	13,817,235.74	

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
(1)	(2)	(3)	(4)	(5)	OCM	PROFIT	%	VALUE	(10)	(11)	(12)	(13)
					(6)	(7)	(8)	(5) x (8)	5% (5) + (9)	(9) + (10)	(5) + (11)	(12) / (3)
PART H - MISCELLANEOUS STRUCTURES												
600(3)	Concrete Curb & Gutter	122.00	ln.m.	109,785.45	10.00	8.00	18.00	19,761.38	6,477.34	26,238.72	136,024.17	1,114.95
601(1)	Sidewalk	244.00	sq.m.	140,794.10	10.00	8.00	18.00	25,342.94	8,306.85	33,649.79	174,443.89	714.93
605(2)22	Regulatory Signs (R5-4C)	2.00	each	19,702.69	10.00	8.00	18.00	3,546.48	1,162.46	4,708.94	24,411.63	12,205.82
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	838.00	sq.m.	619,386.52	10.00	8.00	18.00	111,489.57	36,543.80	148,033.38	767,419.90	915.78
612(2)	ReflectORIZED Thermoplastic Pavement Markings (Yellow)	268.50	sq.m.	218,661.96	10.00	8.00	18.00	39,359.15	12,901.06	52,260.21	270,922.17	1,009.02
	TOTAL OF PART H			1,108,330.72				199,499.53	65,391.51	264,891.04	1,373,221.77	
	TOTAL			75,835,485.87				13,405,147.55	4,462,031.67	17,867,179.23	93,702,665.10	

Prepared by :

BELEN A. SAPALLADA
Head, BAC Technical Working Group

Submitted by :

LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval:

CAYAMONBAO D. DIA
OIC - Assistant Regional Director

Approved by :

JORGE H. SERRANO JR. CFE-III
Regional Director

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN %		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
(1)	(2)	(3)	(4)	(5)	OCM	PROFIT	%	VALUE	(10)	(11)	(12)	(13)
					(6)	(7)	(8)	(9)	(5)(5) + (9)	(9) + (10)	(5) + (11)	(12) / (3)
PART H - MISCELLANEOUS STRUCTURES												
600(3)	Concrete Curb & Gutter	122.00	ln.m.	109,785.45	10.00	8.00	18.00	19,761.38	6,477.34	26,238.72	136,024.17	1,114.95
601(1)	Sidewalk	244.00	sq.m.	140,794.10	10.00	8.00	18.00	25,342.94	8,306.85	33,649.79	174,443.89	714.93
605(2)z2	Regulatory Signs (RS-4C)	2.00	each	19,702.69	10.00	8.00	18.00	3,546.48	1,162.46	4,708.94	24,411.63	12,205.82
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	838.00	sq.m.	619,386.52	10.00	8.00	18.00	111,489.57	36,543.80	148,033.38	767,419.90	915.78
612(2)	ReflectORIZED Thermoplastic Pavement Markings (Yellow)	268.50	sq.m.	218,661.26	10.00	8.00	18.00	39,359.15	12,901.06	52,260.21	270,922.17	1,009.02
	TOTAL OF PART H			1,108,330.72				199,499.53	65,391.51	264,891.04	1,373,221.77	
	TOTAL			75,835,485.67				13,405,147.55	4,462,031.67	17,867,179.23	93,702,665.10	

Prepared by :

BELEN A. SAPALLIDA
Head, BAC Technical Working Group

Submitted by :

LEONARDO B. SOLAMILLO
Chief, Construction Division

Recommending Approval:

CAYAMON LAO D. DIA
OIC - Assistant Regional Director

Approved by :

JORGE U. VERA STANLEY, JR., CESO III
Regional Director

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: A.1.1(3) Construction of Field Office for the Engineer

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

7.00 m. x 9.00 m., 1 - Classroom, for
Government Field Office, fully furnished as
shown on plans

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.00	611.92	4,895.36
	b. Mason	3	8.00	443.20	10,636.80
	c. Carpenter	3	8.00	443.20	10,636.80
	d. Laborer	6	8.00	342.24	16,427.52
Sub-total for A				P	42,596.48
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	6.00	1,376.00	8,256.00
	b. Water Truck	1	1.00	19,600.00	19,600.00
	Minor Tools 10% of Labor				4,259.65
Sub-total for B				P	32,115.65
C.	Total (A+B)				74,712.13
D.	Output/day	- L.S./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	I. Earthworks (Excavation, Embankment, Bedding)				
	a. Gravel Bedding	3.50	cu.m.	1,202.75	4,209.63
	b. Selected Fill	10.00	cu.m.	388.35	3,883.50
	c. Soil Poisoning	2.50	L	1,900.00	4,750.00
	II. Concrete Works (Footing, Columns, Beams & Slab on Grade)				
	a. Portland Cement	90.00	bag	285.00	25,650.00
	b. Crushed Gravel	21.00	cu.m.	1,202.75	25,257.75
	c. Washed Sand	18.00	cu.m.	1,202.75	21,649.50
	III. Reinforcing Bars(Footing Columns, Beams, & Slabs on Grade)				
	a. Deformed Round Bar, Grade 40	435.00	kg.	38.00	16,530.00
	b. No. 16 GI Tie Wire	20.00	kg.	80.00	1,600.00
	IV. Formworks (Columns & Beams)				
	a. Coco Lumber	400.00	bd.ft.	24.50	9,800.00
	b. Ordinary Plywood, 1/4"x4'x8'	18.00	pc.	385.00	6,930.00
	c. CWN, Assorted	5.00	kg.	65.00	325.00
	V. Masonry Works (masonry walls & plastering)				
	a. CHB 6" thk	650.00	pc.	16.00	10,400.00
	b. Portland Cement	45.00	bag	285.00	12,825.00
	c. Washed Sand	8.00	cu.m.	1,202.75	9,622.00
	d. 10mm dia. X 6m RSB	65.00	kg.	38.00	2,470.00
	e. No. 16 GI Tie Wire	2.50	kg.	80.00	200.00
	VI. Doors and Windows				
	a. D-1, Hollow Core Flush Type swing door, complete w/ accessories, 0.90mx2.1m	2.00	set	1,765.26	3,530.52
	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				P	165,176.90
Sub-total for E (I + II + III)				P	314,504.85
F.	Direct Cost (C + E)				389,216.97
G.	Overhead, Contingencies and Miscellaneous	10% per D.O. 197, s. 2016			38,921.70
H.	Contractor's Profit(CP)	8% per D.O. 197, s. 2016			31,137.36
I.	Value Added Tax (VAT)	5% per D.O. 197, s. 2016			22,963.80
J.	Total Unit Cost				482,239.83

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m.

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

For Government Field Office, fully
furnished as shown on plans

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A					P -
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				-
Sub-total for B					P -
C.	Total (A+B)				-
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	VII. Steel Works				
	a. 65 x 65 x 6mm. L	350.00	kg.	48.00	16,800.00
	b. 50 x 50 x 6mm. L	250.00	kg.	48.00	12,000.00
	c. 50 x 50 x 4mm. L	100.00	kg.	48.00	4,800.00
	d. Purlins C- 150 x 50 x 3mm.	18.00	kg.	48.00	864.00
	e. 16mm dia. Cross bracing	35.00	kg.	38.00	1,330.00
	f. 16mm dia. Turn buckle	20.00	pc.	118.00	2,360.00
	g. 12mm thk base plate	25.00	kg.	47.00	1,175.00
	h. 10mm thk batten plate	15.00	kg.	47.00	705.00
	i. 10mm dia. Sag rod	10.00	kg.	38.00	380.00
	j. 20mm dia. X 350 mm anchor bolts	10.00	pc.	36.00	360.00
	k. Welding Rod	15.00	kg.	166.33	2,494.95
	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.	113.00	1,130.00
	c. Pre-painted flashing, ga. 24	2.00	ln.m.	113.00	226.00
	d. Teckscrew 11/2"	1,000.00	pc.	1.25	1,250.00
	e. Roof Sealant	2.00	L	250.00	500.00
	IX. Carpentry Works				
	a. Rough Lumber, sun dried tanguile	500.00	bd.ft.	37.00	18,500.00
	b. Plywood, ordinary 1/4" x 4' x 8'	30.00	pc.	385.00	11,550.00
	c. Finishing Nails	5.00	kg.	100.00	500.00
	d. Common Wire Nails	10.00	kg.	65.00	650.00
	e. Wood Preservative Brown	5.00	L	400.00	2,000.00
Sub-total for E					P 105,329.95
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/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: A.1.1(3) Bunkhouse, 7.00 m. x 9.00 m.

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

*For Government Field Office, fully
furnished as shown on plans*

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	-
C.	Total (A+B)				-
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	X. Electrical Works				
	a. 2 x 40w Flourescent lighting fixtures	5.00	set	1,030.00	5,150.00
	b. Porcelain Ceiling Outlet w/ female socket	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	170.00	510.00
	e. 3.5mm2 thw	3.00	roll	3,600.00	10,800.00
	f. 8.00mm2 thw	25.00	m	70.00	1,750.00
	g. 15mm dia. PVC pipe	20.00	pc	73.00	1,460.00
	h. 15mm dia. PVC Coupling	25.00	pc	5.00	125.00
	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	9.00	27.00
	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	100.00	200.00
	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	31.00	217.00
	t. panel board (side main w/ braches)	2.00	set	1,627.00	3,254.00
	XI. Plumbing Works				
	a. Water Closet (include. Fitting & Accessories)	1.00	set	7,375.00	7,375.00
	b. Lavatory (include fitting & Accessories)	1.00	set	6,615.00	6,615.00
	c. 1/2" GI Pipe S-40	2.00	pc	166.00	332.00
	d. 1/2" Water Faucet	2.00	pc	321.00	642.00
	e. 1/2" Assorted Connector	8.00	pc	20.00	160.00
	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				P	43,998.00
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/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: A.1.1(11) Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer

Unit of Measurement: L.S.

Output per hour:

Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B				P	-
C.	Total (A+B)				-
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	Office Equipment/Facilities & Supplies				
	Electric Desk Fan	2.00	unit	1,370.00	2,740.00
	Folding Beds, Good Quality	2.00	each	2,700.00	5,400.00
	pillows w/ pillow cases, fitted sheets and blanket	2.00	each	5,000.00	10,000.00
	Double burner gas stove (Gasul)	1.00	unit	3,700.00	3,700.00
	10 cups Rice Cooker	1.00	unit	2,500.00	2,500.00
	Various Office Supply	1.00	L.S.	45,000.00	45,000.00
	(Folders, Bond Paper, Yellow Pads, Ball Pens, Pencil, Envelopes, etc.)				
	Kitchenware	1.00	L.S.	30,000.00	30,000.00
	(Plates, Spoons & Forks, Glasses, etc.)				
	Dining Table	1.00	set	8,000.00	8,000.00
	Digital Camera	2.00	set	12,000.00	24,000.00
	Refrigerator (2 Door, Digital - Inverter)	1.00	set	25,000.00	25,000.00
	Cellphone	4.00	set	15,000.00	60,000.00
	Laptop	1.00	set	60,000.00	60,000.00
	Lighting/Water Fixtures				
	a. Electrical Bill	8.67	mos.	3,000.00	26,000.00
	b. Water Bill	8.67	mos.	1,500.00	13,000.00
	c. LPG (11 kg)	8.67	mos.	1,000.00	8,666.67
Sub-total for E				P	324,006.67
F.	Direct Cost (C + E)				324,006.67
G.	Overhead, Contingencies and Miscellaneous			per D.O. 197, s. 2016	-
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	25,920.53
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	17,496.36
J.	Total Unit Cost				367,423.56

Handwritten signature

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: A.1.2(5) Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer
Unit of Measurement: month

Output per hour: 8.67
Quantity:

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Driver	1	260	422.32	109,803.20
Sub-total for A					P 109,803.20
Name and Capacity		No. of Equipment	No. of Months	Monthly Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B					P -
C.	Total (A+B)				109,803.20
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Diesel	2,600.00	L	31.00	80,600.00
	b. Spare Parts	1.00	L.S.	40,000.00	40,000.00
	c. Engine Oil & Lubricants	1.00	L.S.	12,090.00	12,090.00
	d. Miscellaneous	1.00	L.S.	30,000.00	30,000.00
Sub-total for E					P 162,690.00
F.	Direct Cost (C + E)				272,493.20
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	13,624.66
J.	Total Unit Cost				33,013.60

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: B.4(1) Construction Survey & Staking
Unit of Measurement: km.
Output per hour: 0.04
Quantity: 3.608

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Field Works				
	a. Geodetic Engineer	1	11.28	833.31	9,395.99
	b. Skilled Laborer	3	11.28	443.20	14,991.90
	c. Laborer	3	11.28	342.24	11,576.78
	For Office Works				
	a. Geodetic Engineer	1	33.83	833.31	28,187.96
	b. Skilled Laborer	2	33.83	443.20	29,983.81
Sub-total for A				P	94,136.44
Name and Capacity		No. of Equipment	No. of Days	Unit Cost	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Total Station w/ complete accessories (Equipment to be turned-over to the Regional Office after Project Completion)	1		400,000.00	400,000.00
Sub-total for B				P	400,000.00
C.	Total (A+B)				494,136.44
D.	Output/day	0.32	km./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Standard Stake Plan (800 mm x 910 mm)	80.00	pc	400.00	32,000.00
	b. Blue Printing	400.00	pc	15.00	6,000.00
	Miscellaneous 5% of Materials Cost				1,900.00
Sub-total for E				P	39,900.00
F.	Direct Cost (C + E)				534,036.44
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		53,403.64
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		42,722.92
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		31,508.15
J.	Total Unit Cost				183,381.88

Handwritten signature

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: B.5 Project Billboard/Signboard

Unit of Measurement: each

Output per hour:

Quantity: 2.00

Per D.O. 141, s. 2016

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.00	611.92	1,223.84
	b. Skilled Labor	1	2.00	443.20	886.40
	c. Unskilled Labor	2	2.00	342.24	1,368.96
Sub-total for A					P 3,479.20
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
Sub-total for B					P -
C.	Total (A+B)				3,479.20
D.	Output/day	-	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Ordinary Plywood 1/2" thk. x 4' x 8'	2.00	pc.	750.00	1,500.00
	b. Tarpaulin (4' x 8')	2.00	pc.	1,000.00	2,000.00
	c. Assorted Lumber	100.00	bd.ft.	37.00	3,700.00
	d. Assorted CW Nails	2.00	kg.	65.00	130.00
Sub-total for E					P 7,330.00
F.	Direct Cost (C + E)				10,809.20
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,080.92
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		864.74
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		637.74
J.	Total Unit Cost				6,696.30

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: B.7 Occupation Safety and Health Program
 Unit of Measurement: month
 Output per hour:
 Quantity: 8.67

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Safety Practioner	1	130.00	611.92	79,549.60
	b. First Aider	1	260.00	443.20	115,232.00
Sub-total for A					P 194,781.60
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Warning Signs and Barricades				60,000.00
Sub-total for B					P 60,000.00
C.	Total (A+B)				254,781.60
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Rubber Boots (Long w/ steel toe, Black)	24.00	pair	400.00	9,600.00
	b. Working Gloves (Maong Material)	24.00	pair	15.00	360.00
	c. Rain Coats (Reinforced, Hip Length)	24.00	pc.	100.00	2,400.00
	d. Safety Hats	24.00	pc.	600.00	14,400.00
Sub-total for E					P 26,760.00
F.	Direct Cost (C + E)				281,541.60
G.	Overhead, Contingencies and Miscellaneous		per D.O. 197, s. 2016		-
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		22,523.33
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		15,203.25
J.	Total Unit Cost				36,838.64

AN

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: B.9 Mobilization & Demobilization
Unit of Measurement: L.S.
Output per hour:
Quantity: 1.00

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
Sub-total for A				P	-
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
a.	Low Bed Trailer	1	5.00	34,043.00	170,215.00
b.	Water Truck	1	5.00	19,600.00	98,000.00
c.	Backhoe	2	5.00	12,296.00	122,960.00
d.	Bulldozer	1	5.00	27,032.00	135,160.00
e.	DumpTruck	4	5.00	11,360.00	227,200.00
Sub-total for B				P	753,535.00
C.	Total (A+B)				753,535.00
D.	Output/day	-	L.S./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				753,535.00
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	37,676.75
J.	Total Unit Cost				791,211.75

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 101(2) Removal of Actual Structures/Obstruction

Unit of Measurement: each

Output per hour: 10.00 cu.m./hr.

Quantity: 5.00 each

54.00 cu.m.

Removal of Existing Headwall (2.00 x 1.80
x 0.30 m.)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.68	611.92	413.05
	b. Unskilled Labor	2	0.68	342.24	462.02
Sub-total for A					P 875.07
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 cu.m.)	1	0.34	15,984.80	5,394.87
	b. Backhoe (0.80 cu.m.) - for loading	1	0.34	12,296.00	4,149.90
	c. Dump Truck (12 cu.yd.)	1	0.68	11,360.00	7,668.00
Sub-total for B					P 17,212.77
C.	Total (A+B)				18,087.84
D.	Output/day	80.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				18,087.84
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,808.78
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,447.03
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,067.18
J.	Total Unit Cost				4,482.17

A

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 101(3)b2 Removal of Actual Structures/Obstruction

Unit of Measurement: cu.m.

Output per hour: 35.00

Quantity: 15,024.50

Existing PCCP (Variable Width)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	53.66	611.92	32,834.97
	b. Unskilled Labor	2	53.66	342.24	36,728.46
Sub-total for A					P 69,563.44
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Pavement Breaker (0.80 cu.m.)	1	53.66	15,984.80	857,727.24
	b. Payloader (1.50 cu.m.), LX80-2C	1	53.66	13,864.00	743,927.39
	c. Dump Truck (12 cu.yd.)	1	26.83	11,360.00	304,782.71
	Minor Tools 10% of Labor Cost				6,956.34
Sub-total for B					P 1,913,393.68
C.	Total (A+B)				1,982,957.12
D.	Output/day	280.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				1,982,957.12
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		198,295.71
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		158,636.57
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		116,994.47
J.	Total Unit Cost				163.53

Handwritten signature

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 101(4)a2 Removal of Actual Structures/Obstruction

Unit of Measurement: ln.m.

Output per hour: 5.00

Quantity: 35.00

Existing RCPC (760 mm.)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.88	611.92	535.43
	b. Unskilled Labor	2	0.88	342.24	598.92
Sub-total for A					P 1,134.35
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	0.88	12,296.00	10,759.00
	b. Boom Truck (2 - 5 mt.)	1	0.44	8,143.20	3,562.65
	Minor Tools 10% of Labor Cost				113.44
Sub-total for B					P 14,435.09
C.	Total (A+B)				15,569.44
D.	Output/day	40.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				15,569.44
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,556.94
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		1,245.55
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		918.60
J.	Total Unit Cost				551.16

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 101(6) Removal of Actual Structures/Obstruction
Unit of Measurement: cu.m.

Output per hour: 2.00
Quantity: 70.50

Removal of Existing RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.41	611.92	2,696.27
	b. Skilled Labor	1	4.41	443.20	1,952.85
	b. Unskilled Labor	2	4.41	342.24	3,015.99
Sub-total for A					P 7,665.11
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 cu.m.)	1	2.20	15,984.80	35,216.51
	b. Backhoe (0.80 cu.m.) - for loading	1	1.10	12,296.00	13,544.81
	c. Dump Truck (12 cu.yd.)	1	2.20	11,360.00	25,027.50
	d. Cutting Outfit	1	4.41	363.60	1,602.11
Sub-total for B					P 75,390.94
C.	Total (A+B)				83,056.05
D.	Output/day	16.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Oxy/Acetylene	7.05	set	2,500.00	17,625.00
Sub-total for E					P 17,625.00
F.	Direct Cost (C + E)				100,681.05
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		10,068.11
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		8,054.48
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		5,940.18
J.	Total Unit Cost				1,769.42

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 102(2) Surplus Common Excavation
Unit of Measurement: cu.m.
Output per hour: 60.00
Quantity: 5,679.50

For Disposal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	11.83	611.92	7,240.42
	b. Unskilled Labor	2	11.83	342.24	8,098.97
Sub-total for A					P 15,339.38
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bulldozer, D6H SERIES II PSDS/DD	1	11.83	27,032.00	319,850.51
	b. Payloader (1.50 cu.m.)	1	11.83	13,864.00	164,042.89
	c. Payloader (1.50 cu.m.) - at disposal area	1	2.96	13,864.00	41,010.72
	d. Dump Truck (12 cu.yd.)	2	11.83	11,360.00	268,829.67
Sub-total for B					P 793,733.79
C.	Total (A+B)				809,073.17
D.	Output/day	480.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				809,073.17
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		80,907.32
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		64,725.85
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		47,735.32
J.	Total Unit Cost				176.50

Handwritten signature

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: 20.00

Quantity: 2,540.00

For Disposal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	15.88	611.92	9,714.23
	b. Unskilled Labor	3	15.88	342.24	16,299.18
Sub-total for A					P 26,013.41
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	15.88	11,360.00	360,680.00
	b. Backhoe (0.80 cu.m.)	1	15.88	12,296.00	195,199.00
Sub-total for B					P 555,879.00
C.	Total (A+B)				581,892.41
D.	Output/day	160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				581,892.41
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		58,189.24
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		46,551.39
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		34,331.65
J.	Total Unit Cost				283.84

Handwritten signature

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 103(3) Foundation Fill

Unit of Measurement: cu.m.

Output per hour: 1.25

Quantity: 10.00

For RCPC Beddings

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.00	611.92	611.92
	b. Unskilled Labor	4	1.00	342.24	1,368.96
Sub-total for A					P 1,980.88
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Plate Compactor (5 hp)	1	1.00	984.00	984.00
	b. Water Truck/Pump (16000 L)	1	0.01	19,600.00	196.00
	Minor Tools 10% of Labor Cost				198.09
Sub-total for B					P 1,378.09
C.	Total (A+B)				3,358.97
D.	Output/day 10.00	cu.m./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Filling Materials (well-graded sand)	11.50	cu.m.	1,202.75	13,831.63
Sub-total for E					P 13,831.63
F.	Direct Cost (C + E)				17,190.59
G.	Overhead, Contingencies and Miscellaneous 10% per D.O. 197, s. 2016				1,719.06
H.	Contractor's Profit (CP) 8% per D.O. 197, s. 2016				1,375.25
I.	Value Added Tax (VAT) 5% per D.O. 197, s. 2016				1,014.24
J.	Total Unit Cost				2,129.91

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 103(6)a Pipe Culverts and Drain Excavation
Unit of Measurement: cu.m.
Output per hour: 20.00
Quantity: 85.50

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.53	611.92	326.99
	b. Unskilled Labor	3	0.53	342.24	548.65
Sub-total for A				P	875.65
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Dump Truck (12 cu.yd.)	2	0.53	11,360.00	12,141.00
	b. Backhoe (0.80 cu.m.)	1	0.53	12,296.00	6,570.68
	Minor Tools 10% of Labor Cost				87.56
Sub-total for B				P	18,799.24
C.	Total (A+B)				19,674.89
D.	Output/day	160.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				19,674.89
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,967.49
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,573.99
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,160.82
J.	Total Unit Cost				285.11

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 104(1)a Embankment from Roadway Excavation

Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 5,133.50

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work				
	a. Const. Foreman	1	10.65	611.92	6,518.18
	c. Unskilled Laborer	2	10.65	342.24	7,291.09
	Spreading and Compaction				
	a. Const. Foreman	1	12.83	611.92	7,853.23
	c. Unskilled Laborer	2	12.83	342.24	8,784.45
Sub-total for A				P	30,446.94
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	For Excavation Work				
	a. Bulldozer, D6H Series II PSDS/DD	1	10.65	27,032.00	287,945.20
	b. Payloader (1.50 cu.m.)	1	10.65	13,864.00	147,679.50
	c. Dump Truck (12 cu.yd.)	2	10.65	11,360.00	242,013.72
	Spreading and Compaction				
	a. Motorized Road Grader (140 hp), G170A	1	12.83	17,384.00	223,101.91
	b. Vibratory Roller (10 mt), SD100C	1	12.83	14,768.00	189,528.82
	c. Water Truck/Pump (16000 L)	1	3.21	19,600.00	62,885.38
Sub-total for B				P	1,153,154.53
C.	Total (A+B)				1,183,601.47
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E				P	-
F.	Direct Cost (C + E)				1,183,601.47
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		118,360.15
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		94,688.12
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		69,832.49
J.	Total Unit Cost				285.67

Handwritten signature

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 105(1)a Subgrade Preparation
 Unit of Measurement: sq.m.
 Output per hour: 300.00
 Quantity: 25,735.00

Variable Width

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	10.72	611.92	6,561.57
	b. Unskilled Laborer	2	10.72	342.24	7,339.62
Sub-total for A					P 13,901.19
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	10.72	17,384.00	186,407.18
	b. Vibratory Roller (10 mt), SD100DC	1	10.72	14,768.00	158,356.03
	c. Water Truck/Pump (16000 L)	1	2.68	19,600.00	52,542.29
Sub-total for B					P 397,305.51
C.	Total (A+B)				411,206.70
D.	Output/day	2,400.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
Sub-total for E					P -
F.	Direct Cost (C + E)				411,206.70
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		41,120.67
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		32,896.54
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		24,261.20
J.	Total Unit Cost				19.80

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 13,262.00

0.30 m. thk. (min.), Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	33.16	611.92	20,288.21
	b. Unskilled Labor	2	33.16	342.24	22,693.93
Sub-total for A					P 42,982.14
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	33.16	17,384.00	576,366.52
	b. Vibratory Roller (10 mt), SD100DC	1	33.16	14,768.00	489,633.04
	c. Water Truck/Pump (16000 L)	1	8.29	19,600.00	162,459.50
Sub-total for B					P 1,228,459.06
C.	Total (A+B)				1,271,441.20
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Aggregate Subbase Course (w/ 15% Shrinkage Factor)	15,251.30	cu.m.	981.75	14,972,963.78
Sub-total for E					P 14,972,963.78
F.	Direct Cost (C + E)				16,244,404.98
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,624,440.50
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,299,552.40
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		958,419.89
J.	Total Unit Cost				1,517.63

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 300(1) Gravel Surface Course
Unit of Measurement: cu.m.

Output per hour: 50.00

Quantity: 510.00

Compacted Volume

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.28	611.92	780.20
	b. Unskilled Labor	2	1.28	342.24	872.71
Sub-total for A					P 1,652.91
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Motorized Road Grader (140 hp), G710A	1	1.28	17,384.00	22,164.60
	b. Vibratory Roller (10 mt), SD100DC	1	1.28	14,768.00	18,829.20
	c. Water Truck/Pump (16000 L)	1	0.32	19,600.00	6,247.50
Sub-total for B					P 47,241.30
C.	Total (A+B)				48,894.21
D.	Output/day	400.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Uncrushed Aggregate Surface Course (w/ 15% Shrinkage Factor)	586.50	cu.m.	1,036.75	608,053.88
Sub-total for E					P 608,053.88
F.	Direct Cost (C + E)				656,948.09
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		65,694.81
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		52,555.85
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		38,759.94
J.	Total Unit Cost				1,596.00

AN

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 311(1)e1 Portland Cement Concrete Pavement

Unit of Measurement: sq.m.

Output per hour: 57.50

Quantity: 354.00

0.28 m. thick, for Turnout

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.77	611.92	470.91
	b. Skilled Labor	4	0.77	443.20	1,364.29
	c. Unskilled Labor	12	0.77	342.24	3,160.51
Sub-total for A					P 4,995.71
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	0.77	10,544.00	32,457.18
	b. Concrete Vibrator	2	0.77	730.00	1,123.57
	c. Concrete Batch Plant (30 cu.m.)	1	0.77	14,076.00	10,832.40
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.77	13,864.00	10,669.25
	e. Concrete Screeder (5.5 hp)	1	0.77	4,360.00	3,355.30
	f. Water truck/Pump (16000 L)	1	0.77	19,600.00	15,083.48
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	0.77	261.04	200.89
	h. Bar Cutter, Single Phase	1	0.08	1,758.00	135.29
	Minor Tools 5% of Labor				249.79
Sub-total for B					P 74,107.14
C.	Total (A+B)				79,102.85
D.	Output/day	460.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	177.00	kg.	38.00	6,726.00
	b. Curing Compound	102.66	L	35.00	3,593.10
	c. Asphalt Sealant	60.18	L	100.00	6,018.00
	d. Steel Forms (Rental)	162.84	m	60.00	9,770.40
	e. Sand	54.52	cu.m.	1,202.75	65,569.12
	f. Gravel	99.12	cu.m.	1,202.75	119,216.58
	g. Cement	941.64	bag	285.00	268,367.40
	h. Concrete Saw (Diamond Blade 14" Ø)	0.05	pc.	2,500.00	132.75
	i. Pipe Sleeve, 2" Ø	2.76	m.	61.00	168.43
	j. Grease/Tar	2.76	L	112.50	310.64
Sub-total for E					P 479,872.42
F.	Direct Cost (C + E)				558,975.27
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		55,897.53
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		44,718.02
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		32,979.54
J.	Total Unit Cost				1,956.41

44

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 311(1)c1 Portland Cement Concrete Pavement

Unit of Measurement: sq.m.

Output per hour: 70.00

Quantity: 23,840.00

0.23 m. thick, includes widening

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	42.57	611.92	26,050.31
	b. Skilled Labor	4	42.57	443.20	75,470.63
	c. Unskilled Labor	12	42.57	342.24	174,835.75
Sub-total for A					P 276,356.69
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	42.57	10,544.00	1,795,492.57
	b. Concrete Vibrator	2	42.57	730.00	62,154.29
	c. Concrete Batch Plant (30 cu.m.)	1	42.57	14,076.00	599,235.43
	d. Payloader (1.50 cu.m.), LX80-2C	1	42.57	13,864.00	590,210.29
	e. Concrete Screeder (5.5 hp)	1	42.57	4,360.00	185,611.43
	f. Water truck/Pump (16000 L)	1	42.57	19,600.00	834,400.00
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	42.57	261.04	11,112.85
	h. Bar Cutter, Single Phase	1	4.26	1,758.00	7,484.06
	Minor Tools 5% of Labor				13,817.83
Sub-total for B					P 4,099,518.74
C.	Total (A+B)				4,375,875.42
D.	Output/day	560.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	10,251.20	kg.	38.00	389,545.60
	b. Curing Compound	6,913.60	L	35.00	241,976.00
	c. Asphalt Sealant	2,860.80	L	100.00	286,080.00
	d. Steel Forms (Rental)	10,966.40	m	52.00	570,252.80
	e. Sand	3,015.76	cu.m.	1,202.75	3,627,205.34
	f. Gravel	5,483.20	cu.m.	1,202.75	6,594,918.80
	g. Cement	52,209.60	bag	285.00	14,879,736.00
	h. Concrete Saw (Diamond Blade 14" Ø)	3.58	pc.	2,500.00	8,940.00
	i. Pipe Sleeve, 2" Ø	169.26	m.	61.00	10,325.10
	j. Grease/Tar	207.41	L	112.50	23,333.40
Sub-total for E					P 26,632,313.04
F.	Direct Cost (C + E)				31,008,188.47
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		3,100,818.85
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,480,655.08
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,829,483.12
J.	Total Unit Cost				1,611.54

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 311(1)a Portland Cement Concrete Pavement
Unit of Measurement: sq.m.
Output per hour: 107.33
Quantity: 8,505.00

0.15 m. thick, for shouldering

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	9.91	611.92	6,061.19
	b. Skilled Labor	4	9.91	443.20	17,559.94
	c. Unskilled Labor	12	9.91	342.24	40,679.46
Sub-total for A					P 64,300.59
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	9.91	10,544.00	417,761.67
	b. Concrete Vibrator	2	9.91	730.00	14,461.59
	c. Concrete Batch Plant (30 cu.m.)	1	9.91	14,076.00	139,425.58
	d. Payloader (1.50 cu.m.), LX80-2C	1	9.91	13,864.00	137,325.68
	e. Concrete Screeder (5.5 hp)	1	9.91	4,360.00	43,186.67
	f. Water truck/Pump (16000 L)	1	9.91	19,600.00	194,141.90
	g. Concrete Saw (7.5 hp), 14" Blade Ø	1	9.91	261.04	2,585.65
	h. Bar Cutter, Single Phase	1	0.99	1,758.00	1,741.33
	Minor Tools 5% of Labor				3,215.03
Sub-total for B					P 953,845.10
C.	Total (A+B)				1,018,145.69
D.	Output/day	858.64	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bar	2,806.65	kg.	38.00	106,652.70
	b. Curing Compound	2,466.45	L	35.00	86,325.75
	c. Asphalt Sealant	1,020.60	L	100.00	102,060.00
	d. Steel Forms (Rental)	3,912.30	m	60.00	234,738.00
	e. Sand	701.66	cu.m.	1,202.75	843,924.57
	f. Gravel	1,275.75	cu.m.	1,202.75	1,534,408.31
	g. Cement	12,162.15	bag	285.00	3,466,212.75
	h. Concrete Saw (Diamond Blade 14" Ø)	1.28	pc.	2,500.00	3,189.38
	i. Pipe Sleeve, 2" Ø	66.34	m.	61.00	4,046.68
	j. Grease/Tar	12.76	L	112.50	1,435.22
Sub-total for E					P 6,382,993.36
F.	Direct Cost (C + E)				7,401,139.05
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		740,113.90
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		592,091.12
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		436,667.20
J.	Total Unit Cost				1,078.19

W

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 404(1)a Reinforcing Steel

Unit of Measurement: kg.

Output per hour: 180.00

Quantity: 41,550.50

Grade 40, For Line Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	28.85	611.92	17,656.65
	b. Skilled Labor	2	28.85	443.20	25,576.64
	c. Unskilled Labor	8	28.85	342.24	79,001.35
Sub-total for A					P 122,234.65
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	14.43	1,758.00	25,363.12
	b. Bar Bender	1	14.43	2,812.00	40,569.45
	c. Cargo Truck (9 - 10 mt.)	1	4.33	9,696.00	41,966.01
Sub-total for B					P 107,898.57
C.	Total (A+B)				230,133.22
D.	Output/day	1,440.00	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	872.56	kg.	80.00	69,804.84
	b. Reinforcing Steel Bar, Grade 40 (with 5% wastage)	43,628.03	kg.	38.00	1,657,864.95
Sub-total for E					P 1,727,669.79
F.	Direct Cost (C + E)				1,957,803.01
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		195,780.30
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		156,624.24
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		115,510.38
J.	Total Unit Cost				58.38

AN

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 404(1)b Reinforcing Steel
Unit of Measurement: kg.
Output per hour: 180.00
Quantity: 2,028.00

Grade 60, For RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.41	611.92	861.79
	b. Skilled Labor	2	1.41	443.20	1,248.35
	c. Unskilled Labor	8	1.41	342.24	3,855.90
Sub-total for A				P	5,966.04
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Bar Cutter	1	0.70	1,758.00	1,237.93
	b. Bar Bender	1	0.70	2,812.00	1,980.12
	c. Cargo Truck (9 - 10 mt.)	1	0.21	9,696.00	2,048.28
Sub-total for B				P	5,266.32
C.	Total (A+B)				11,232.36
D.	Output/day	1,440.00	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Tie Wire (2% of RSB)	42.59	kg.	80.00	3,407.04
	b. Reinforcing Steel Bar, Grade 40 (with 5% wastage)	2,129.40	kg.	40.00	85,176.00
Sub-total for E				P	88,583.04
F.	Direct Cost (C + E)				99,815.40
G.	Overhead, Contingencies and Miscellaneous			10% per D.O. 197, s. 2016	9,981.54
H.	Contractor's Profit (CP)			8% per D.O. 197, s. 2016	7,985.23
I.	Value Added Tax (VAT)			5% per D.O. 197, s. 2016	5,889.11
J.	Total Unit Cost				60.98

AN

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: 1.40

Quantity: 1,185.00

For RCBC and Lined Canal

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	105.80	611.92	64,743.32
	b. Skilled Labor	4	105.80	443.20	187,568.57
	c. Unskilled Labor	8	105.80	342.24	289,681.71
	Installation/Removal of Formworks				
	b. Skilled Labor	4	105.80	443.20	187,568.57
	c. Unskilled Labor	8	105.80	342.24	289,681.71
Sub-total for A					P 1,019,243.89
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	105.80	1,376.00	145,585.71
	b. Concrete Vibrator	1	105.80	730.00	77,236.61
	c. Water Truck/Pump (16000 L)	1	10.58	19,600.00	207,375.00
	Minor Tools 5% of Labor				50,962.19
Sub-total for B					P 481,159.52
C.	Total (A+B)				1,500,403.41
D.	Output/day	11.20	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Lumber, Good - 4 uses	82,950.00	bd.ft.	37.00	767,287.50
	b. Marine Plywood (1/2" x 4' x 8') - 4 uses	1,896.00	pc.	880.00	417,120.00
	c. Assorted CWN (1kg./100 bd.ft. of Lumber)	829.50	kg.	65.00	53,917.50
	d. Cement	11,257.50	bag	285.00	3,208,387.50
	e. Sand	592.50	cu.m.	1,202.75	712,629.38
	f. Gravel	1,185.00	cu.m.	1,202.75	1,425,258.75
Sub-total for E					P 6,584,600.63
F.	Direct Cost (C + E)				8,085,004.03
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		808,500.40
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		646,800.32
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		477,015.24
J.	Total Unit Cost				8,453.43

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: 1.40

Quantity: 10.50

For RCBC

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.94	611.92	573.68
	b. Skilled Labor	1	0.94	443.20	415.50
	c. Unskilled Labor	2	0.94	342.24	641.70
Sub-total for A					P 1,630.88
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	0.94	1,376.00	1,290.00
	b. Concrete Vibrator	1	0.94	730.00	684.38
	c. Water Truck	1	0.09	19,600.00	1,837.50
Sub-total for B					P 3,811.88
C.	Total (A+B)				5,442.75
D.	Output/day	11.20	kg./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Portland Cement	99.75	bag	285.00	28,428.75
	b. Sand	5.25	cu.m.	1,202.75	6,314.44
	c. Gravel	10.50	cu.m.	1,202.75	12,628.88
Sub-total for E					P 47,372.06
F.	Direct Cost (C + E)				52,814.81
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		5,281.48
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		4,225.19
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		3,116.07
J.	Total Unit Cost				6,232.15

Handwritten signature

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 500(1)b1 Pipe Culverts

Unit of Measurement: ln.m.

Output per hour: 1.00

Quantity: 18.00

Class IV, Wall B, AASHTO M - 170 - 85

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.99	611.92	605.80
	b. Skilled Labor	2	0.99	443.20	877.54
	c. Unskilled Labor	4	0.99	342.24	1,355.27
Sub-total for A					P 2,838.61
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	0.50	12,296.00	6,086.52
	b. Plate Compactor (5 hp)	1	0.50	984.00	487.08
	Minor Tools 10% of Labor				283.86
Sub-total for B					P 6,857.46
C.	Total (A+B)				9,696.07
D.	Output/day	8.00	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	13.93	bag	285.00	3,970.62
	b. Sand	0.79	cu.m.	1,202.75	952.58
	c. RC Pipes (610 mm. dia.)	18.00	cu.m.	1,665.00	29,970.00
	d. Sand Bedding/Selected Sandy Soil	1.58	m.	1,202.75	1,905.16
Sub-total for E					P 36,798.35
F.	Direct Cost (C + E)				46,494.42
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		4,649.44
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		3,719.55
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,743.17
J.	Total Unit Cost				3,200.37

4

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 500(1)b Pipe Culverts

Unit of Measurement: In.m.

Output per hour: 1.00

Quantity: 75.00

Class IV, Wall B, AASHTO M - 170 - 85

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	5.34	611.92	3,269.95
	b. Skilled Labor	2	5.34	443.20	4,736.70
	c. Unskilled Labor	4	5.34	342.24	7,315.38
Sub-total for A					P 15,322.03
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	2.72	12,296.00	33,429.75
	b. Plate Compactor (5 hp)	1	2.72	984.00	2,675.25
	Minor Tools 10% of Labor				1,532.20
Sub-total for B					P 37,637.20
C.	Total (A+B)				52,959.23
D.	Output/day	8.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	81.00	bag	285.00	23,085.00
	b. Sand	4.58	cu.m.	1,202.75	5,502.58
	c. RC Pipes (910 mm. dia.)	75.00	cu.m.	1,665.00	124,875.00
	d. Sand Bedding/Selected Sandy Soil	9.60	m.	1,202.75	11,546.40
Sub-total for E					P 165,008.98
F.	Direct Cost (C + E)				217,968.21
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		21,796.82
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		17,437.46
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		12,860.12
J.	Total Unit Cost				3,600.83

AN

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 502(3)a1 Catch Basin

Unit of Measurement: each

Output per hour: 1.00

Quantity: 6.00

Class IV, Wall B, AASHTO M - 170 - 85

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.88	611.92	2,983.11
	b. Skilled Labor	2	4.88	443.20	4,321.20
	c. Unskilled Labor	4	4.88	342.24	6,673.68
Sub-total for A					P 13,977.99
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.50	1,376.00	2,064.00
	b. Water Truck	1	1.50	19,600.00	29,400.00
	c. Concrete Vibrator	1	1.50	730.00	1,095.00
	d. Bar Cutter	1	0.19	1,758.00	329.63
	e. Bar Bender	1	0.19	2,812.00	527.25
	Minor Tools 10% of Labor				1,397.80
Sub-total for B					P 34,813.67
C.	Total (A+B)				48,791.66
D.	Output/day	8.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	106.20	bag	285.00	30,267.00
	b. Sand	4.74	cu.m.	1,202.75	5,701.04
	c. Gravel	9.42	cu.m.	1,202.75	11,329.91
	d. 1/4" Ordinary Plywood - 2 uses	44.58	pc.	385.00	8,581.65
	e. Coco Lumber - 2 uses	469.86	bd.ft.	13.00	3,054.09
	f. 10 mm. dia. Reinforcing Steel Bar	750.90	kg.	38.00	28,534.20
	g. #16 GI Tie Wire	15.02	kg.	80.00	1,201.44
	h. Assorted CWN (1 kg/100 bd.ft. of Lumber)	4.70	kg.	65.00	305.37
Sub-total for E					P 88,974.69
F.	Direct Cost (C + E)				137,766.35
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		13,776.64
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		11,021.31
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		8,128.21
J.	Total Unit Cost				28,448.75

4

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 502(4)a1 Concrete Cover

Unit of Measurement: each

Output per hour: 5.00

Quantity: 6.00

Class IV, Wall B, AASHTO M - 170 - 85

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.15	611.92	91.79
	b. Skilled Labor	2	0.15	443.20	132.96
	c. Unskilled Labor	4	0.15	342.24	205.34
Sub-total for A					P 430.09
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	0.08	1,376.00	103.20
	b. Bar Cutter, Single Phase	1	0.08	1,758.00	131.85
	c. Concrete Vibrator	1	0.08	730.00	54.75
	d. Welding Machine (300 A), Gas/Diesel Driven	1	0.04	2,968.00	111.30
	e. Water Truck	1	0.01	19,600.00	147.00
	Minor Tools 10% of Labor				43.01
Sub-total for B					P 591.11
C.	Total (A+B)				1,021.20
D.	Output/day	40.00	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	8.58	bag	285.00	2,445.30
	b. Sand	0.45	cu.m.	1,202.75	541.24
	c. Gravel	0.90	cu.m.	1,202.75	1,082.48
	d. Reinforcing Steel Bar	278.76	kg.	38.00	5,296.44
	e. #16 GI Tie Wire (2% of RSB)	5.58	kg.	80.00	223.20
	f. 6 mm. thk. Flat Bar	441.48	kg.	48.00	21,191.04
	g. 16 mm. thk. Steel Plate	17.82	kg.	47.00	837.54
	h. 1/2" Ordinary Plywood - 2 uses	1.98	pc.	750.00	1,485.00
	i. 16 mm. dia. U-bolt & nut	12.00	set	150.00	1,800.00
	j. Welding Rod (1kg/2000 kg of Steel)	0.24	kg.	166.33	39.92
Sub-total for E					P 34,942.15
F.	Direct Cost (C + E)				35,963.35
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		3,596.34
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		2,877.07
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		2,121.84
J.	Total Unit Cost				7,426.43

Handwritten signature/initials

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 503(1) Metal Frame & Grating

Unit of Measurement: set

Output per hour: 1.00

Quantity: 6.00

Class IV, Wall B, AASHTO M - 170 - 85

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.38	611.92	229.47
	b. Skilled Labor	1	0.38	443.20	166.20
	c. Unskilled Labor	1	0.38	342.24	128.34
Sub-total for A					P 524.01
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	Minor Tools 10% of Labor				52.40
Sub-total for B					P 52.40
C.	Total (A+B)				576.41
D.	Output/day	8.00	In.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. 410 mm. x 660 mm. x 60 mm. CI Cover with Frame	6.00	set	4,700.00	28,200.00
Sub-total for E					P 28,200.00
F.	Direct Cost (C + E)				28,776.41
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		2,877.64
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		2,302.11
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,697.81
J.	Total Unit Cost				5,942.33

Handwritten signature/initials

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: 1.25

Quantity: 21.00

For Slope Protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	2.10	611.92	1,285.03
	b. Skilled Labor	2	2.10	443.20	1,861.44
	c. Unskilled Labor	8	2.10	342.24	5,749.63
Sub-total for A					P 8,896.10
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	2.10	1,376.00	2,889.60
	b. Water Truck/Pump (16000 L)	1	0.11	19,600.00	2,058.00
	Minor Tools 5% of Labor				444.81
Sub-total for B					P 5,392.41
C.	Total (A+B)				14,288.51
D.	Output/day	10.00	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	63.00	bag	285.00	17,955.00
	b. Sand	5.25	cu.m.	1,202.75	6,314.44
	c. Gravel	0.32	cu.m.	1,202.75	378.87
	d. Weep Holes (PVC)	6.30	m.	50.83	320.25
	e. Filter Cloth	0.32	sq.m.	160.00	50.40
	f. Boulders (15 - 25 kg.)	22.05	cu.m.	1,401.75	30,908.59
	Miscellaneous 1% of Materials Cost				559.28
Sub-total for E					P 56,486.82
F.	Direct Cost (C + E)				70,775.33
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		7,077.53
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		5,662.03
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		4,175.74
J.	Total Unit Cost				4,175.74

Handwritten signature/initials

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

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

Unit of Measurement: cu.m.

Output per hour: 1.60

Quantity: 103.00

For Slope Protection

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	8.05	611.92	4,924.04
	b. Skilled Labor	2	8.05	443.20	7,132.75
	c. Unskilled Labor	8	8.05	342.24	22,031.70
Sub-total for A					P 34,088.49
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	8.05	1,376.00	11,072.50
	b. Water Truck/Pump (16000 L)	1	0.40	19,600.00	7,885.94
	c. Backhoe (Wheel Type 0.28 cu.m.)	1	0.80	7,376.00	5,935.38
	Minor Tools 5% of Labor				1,704.42
Sub-total for B					P 26,598.24
C.	Total (A+B)				60,686.73
D.	Output/day	12.80	cu.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	566.50	bag	285.00	161,452.50
	b. Sand	30.90	cu.m.	1,202.75	37,164.98
	c. Gravel	2.06	cu.m.	1,202.75	2,477.67
	d. Weep Holes (PVC)	30.90	m.	50.83	1,570.75
	e. Filter Cloth	1.55	sq.m.	160.00	247.20
	f. Boulders	108.15	cu.m.	1,401.75	151,599.26
	Miscellaneous 1% of Materials Cost				3,545.12
Sub-total for E					P 358,057.48
F.	Direct Cost (C + E)				418,744.21
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		41,874.42
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		33,499.54
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		24,705.91
J.	Total Unit Cost				5,037.13

AN

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 600(3) Concrete Curb & Gutter

Unit of Measurement: In.m.

Output per hour: 10.30

Quantity: 122.00

see detail

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.48	611.92	906.00
	b. Skilled Labor	4	1.48	443.20	2,624.78
	c. Unskilled Labor	8	1.48	342.24	4,053.72
Sub-total for A					P 7,584.49
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Concrete Vibrator	1	1.48	730.00	1,080.83
	b. One Bagger Mixer	1	1.48	1,376.00	2,037.28
	c. Water Truck/Pump (16000L)	1	0.07	19,600.00	1,450.97
	Minor Tools 10% of Labor				758.45
Sub-total for B					P 5,327.53
C.	Total (A+B)				12,912.02
D.	Output/day 82.40	In.m./day			
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	157.38	bag	285.00	44,853.30
	b. Sand	8.54	cu.m.	1,202.75	10,271.49
	c. Gravel	17.08	cu.m.	1,202.75	20,542.97
	d. Plywood Marine, 1/2" thk. X 4' x 8' - 4 uses	29.28	pc.	750.00	5,490.00
	e. Form Lumber - 4 uses	1,399.34	bd.ft.	37.00	12,943.90
	f. Assorted CWN (1 kg./100 bd.ft. of Lumber)	13.42	kg.	65.00	872.30
	Miscellaneous 2% of Materials				1,899.48
Sub-total for E					P 96,873.43
F.	Direct Cost (C + E)				109,785.45
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		10,978.54
H.	Contractor's Profit(CP)		8% per D.O. 197, s. 2016		8,782.84
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		6,477.34
J.	Total Unit Cost				1,114.95

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 601(1) Sidewalk

Unit of Measurement: sq.m.

Output per hour: 20.00

Quantity: 244.00

100 mm. thk., with subs. Item 200 = 24.00
cu.m.

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.53	611.92	933.18
	b. Skilled Labor	4	1.53	443.20	2,703.52
	c. Unskilled Labor	12	1.53	342.24	6,262.99
Sub-total for A					P 9,899.69
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. One Bagger Mixer	1	1.53	1,376.00	2,098.40
	b. Concrete Vibrator	2	1.53	730.00	2,226.50
	c. Water Truck/Pump (16000 L)	1	0.19	19,600.00	3,736.25
	d. Concrete Saw	1	1.53	261.04	398.09
	Minor Tools 10% of Labor				989.97
Sub-total for B					P 9,449.21
C.	Total (A+B)				19,348.90
D.	Output/day	160.00	ln.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Curing Compound	70.76	L	35.00	2,476.60
	b. Asphalt Sealant	29.28	L	100.00	2,928.00
	c. Forms	112.24	m.	40.00	4,489.60
	d. Sand	13.42	cu.m.	1,202.75	16,140.91
	e. Gravel	24.40	cu.m.	1,202.75	29,347.10
	f. Cement	231.80	bag	285.00	66,063.00
Sub-total for E					P 121,445.21
F.	Direct Cost (C + E)				140,794.10
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		14,079.41
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		11,263.53
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		8,306.85
J.	Total Unit Cost				714.93

AW

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 605(2)z2 Regulatory Signs (R5-4C)

Unit of Measurement: each

Output per hour: 1.00

Quantity: 2.00

450 mm. x 740 mm. (Parking Signs Loading Signs; Loading and Unloading Zone)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	0.25	611.92	152.98
	b. Skilled Labor	1	0.25	443.20	110.80
	c. Unskilled Labor	2	0.25	342.24	171.12
Sub-total for A					P 434.90
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck (2 - 5 mt.)	1	0.06	6,264.00	391.50
	Minor Tools 10% of Labor				43.49
Sub-total for B					P 434.99
C.	Total (A+B)				869.89
D.	Output/day	8.00	each/day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Cement	2.64	bag	285.00	752.40
	b. Sand	0.15	cu.m.	1,202.75	175.60
	c. Gravel	0.29	cu.m.	1,202.75	348.80
	d. Form Lumber, Good - 4 uses	16.00	bd.ft.	37.00	148.00
	e. 75 mm. dia. G.I. Pipes	6.20	m.	388.00	2,405.60
	f. Plate	4.00	kg.	47.00	188.00
	g. Bolts, 5 mm. dia.	24.00	pc.	21.00	504.00
	h. Sign Face, 3 mm thk. Aluminum Sheet	2.00	pc.	7,150.00	14,300.00
	i. Assorted CWN (1 kg./1,000 bd.ft. of Lumber)	0.16	kg.	65.00	10.40
Sub-total for E					P 18,832.80
F.	Direct Cost (C + E)				19,702.69
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		1,970.27
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		1,576.22
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		1,162.46
J.	Total Unit Cost				12,205.82

Handwritten signature/initials

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayala - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 612(1) Reflectorized Thermoplastic Pavement Markings (White)
Unit of Measurement: sq.m.

Output per hour: 25.00

Quantity: 838.00

For Center Line (Separation & Edge Lines)

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	4.19	611.92	2,563.94
	b. Skilled Labor	2	4.19	443.20	3,714.02
	c. Unskilled Labor	6	4.19	342.24	8,603.91
Sub-total for A					P 14,881.87
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck (2-5 mt)	1	4.19	6,264.00	26,246.16
	b. Applicator Machine	1	4.19	750.00	3,142.50
	c. Kneading Machine	1	4.19	1,500.00	6,285.00
	Minor Tools 10% of Labor				1,488.19
Sub-total for B					P 37,161.85
C.	Total (A+B)				52,043.72
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (White)	272.35	bag	1,585.00	431,674.75
	b. Glass Beads	27.65	bag	2,500.00	69,135.00
	c. Primer	100.56	L	160.00	16,089.60
	d. LPG (50 kg)	3.35	cyl.	3,450.00	11,564.40
	e. LPG (12 kg)	1.68	cyl.	828.00	1,387.73
	f. Calsumine	104.75	kg.	100.00	10,475.00
	Miscellaneous 5% of Materials Cost				27,016.32
Sub-total for E					P 567,342.80
F.	Direct Cost (C + E)				619,386.52
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		61,938.65
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		49,550.92
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		36,543.80
J.	Total Unit Cost				915.78

41

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME: Construction/Improvement of Access Roads Leading to Declared Tourism Destinations - NRJ
Ayla - La Paz Road Leading to La Paz Resort, Zamboanga City

Item No./Description: 612(2) Reflectorized Thermoplastic Pavement Markings (Yellow)

Unit of Measurement: sq.m.

Output per hour: 25.00

Quantity: 268.50

For Barrier Lines

Designation		No. of Persons	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Const. Foreman	1	1.34	611.92	821.50
	b. Skilled Labor	2	1.34	443.20	1,189.99
	c. Unskilled Labor	6	1.34	342.24	2,756.74
Sub-total for A					P 4,768.24
Name and Capacity		No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment, (2014 ACEL Rates)				
	a. Cargo Truck/Delivery Truck (2-5 mt)	1	1.34	6,264.00	8,409.42
	b. Applicator Machine	1	1.34	750.00	1,006.88
	c. Kneading Machine	1	1.34	1,500.00	2,013.75
	Minor Tools 10% of Labor				476.82
Sub-total for B					P 11,906.87
C.	Total (A+B)				16,675.11
D.	Output/day	200.00	sq.m./day		
Name and Specifications		Quantity	Unit	Unit Cost	Amount
E.	Materials				
	a. Thermoplastic Paint (Yellow)	87.26	bag	1,800.00	157,072.50
	b. Glass Beads	8.86	bag	2,500.00	22,151.25
	c. Primer	32.22	L	175.00	5,638.50
	d. LPG (50 kg)	1.07	cyl.	3,450.00	3,705.30
	e. LPG (12 kg)	0.54	cyl.	828.00	444.64
	f. Calsumine	33.56	kg.	100.00	3,356.25
	Miscellaneous 5% of Materials Cost				9,618.42
Sub-total for E					P 201,986.86
F.	Direct Cost (C + E)				218,661.96
G.	Overhead, Contingencies and Miscellaneous		10% per D.O. 197, s. 2016		21,866.20
H.	Contractor's Profit (CP)		8% per D.O. 197, s. 2016		17,492.96
I.	Value Added Tax (VAT)		5% per D.O. 197, s. 2016		12,901.06
J.	Total Unit Cost				1,009.02

AN

SUMMARY OF DETAILED ESTIMATES

ITEM NO.	DESCRIPTION	QTY.	UNIT	LABOR	EQUIPMENT	MATERIALS	OCM	PROFIT	VAT	TOTAL
PART A - FACILITIES FOR THE ENGINEER										
A.1.1(3)	Construction of Field Office for the Engineer	1.00	L.S.	42,596.48	32,115.65	314,504.85	38,921.70	31,137.36	22,963.80	482,239.83
A.1.1(1)	Provision of Furnitures/Fixtures, Equipment and Appliances for the Field Office for the Field Engineer	1.00	L.S.	-	-	324,006.67	-	25,920.53	17,496.36	367,423.56
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	8.67	month	109,803.20	-	162,690.00	-	-	13,624.66	286,117.86
TOTAL OF PART A										
				152,399.68	32,115.65	801,201.51	38,921.70	57,057.89	54,084.82	1,135,781.25
PART B - OTHER GENERAL REQUIREMENTS										
B.4(1)	Construction Survey & Staking	3.61	km.	94,136.44	400,000.00	39,900.00	53,403.64	42,722.92	31,508.15	661,671.15
B.5	Project Billboard/Signboard	2.00	each	3,479.20	-	7,330.00	1,080.92	864.74	637.74	13,392.60
B.7	Occupation Safety and Health Program	8.67	month	194,781.60	60,000.00	26,740.00	-	22,523.33	15,203.25	319,268.17
B.9	Mobilization & Demobilization	1.00	L.S.	-	753,535.00	-	-	-	37,676.75	791,211.75
TOTAL OF PART B										
				292,397.24	1,213,535.00	73,990.00	54,484.56	66,110.98	85,025.59	1,785,543.68
PART C - EARTHWORKS										
101(2)	Removal of Actual Structures/Obstruction	5.00	each	875.07	17,212.77	-	1,808.78	1,447.03	1,067.18	22,410.83
101(3)b2	Removal of Actual Structures/Obstruction	15,024.50	cum.	69,563.44	1,913,393.68	-	198,295.71	158,636.57	116,994.47	2,456,883.87
101(4)a2	Removal of Actual Structures/Obstruction	35.00	in.m.	1,134.35	14,435.09	-	1,556.94	1,245.55	918.60	19,290.53
101(6)	Removal of Actual Structures/Obstruction	70.50	cum.	7,665.11	75,390.94	17,625.00	10,068.11	8,054.48	5,940.18	124,743.82
102(2)	Surplus Common Excavation	5,679.50	cum.	15,339.38	793,733.79	-	80,907.32	64,725.85	47,735.32	1,002,441.66
103(1)a	Structure Excavation	2,540.00	cum.	26,013.41	555,879.00	-	58,189.24	46,551.39	34,331.65	720,964.70
103(3)	Foundation Fill	10.00	cum.	1,980.88	1,378.09	13,831.63	1,719.06	1,375.25	1,014.24	21,299.14
103(6)a	Pipe Culverts and Drain Excavation	85.50	cum.	875.65	18,799.24	-	1,967.49	1,573.99	1,160.82	24,377.19
104(1)a	Embankment from Roadway Excavation	5,133.50	cum.	30,446.94	1,153,154.53	-	118,360.15	94,688.12	69,832.49	1,466,485.23
105(1)a	Subgrade Preparation	25,735.00	sq.m.	13,901.19	397,305.51	-	41,120.67	32,896.54	24,261.20	509,485.10
TOTAL OF PART C										
				167,793.42	4,940,682.64	31,456.63	513,993.47	411,194.77	303,256.15	6,368,379.07
PART D - SUBBASE AND BASE COURSE										
200(1)	Aggregate Subbase Course	13,262.00	cum.	42,982.14	1,228,459.06	14,972,963.78	1,624,440.50	1,299,552.40	958,419.89	20,126,817.77
TOTAL OF PART D										
				42,982.14	1,228,459.06	14,972,963.78	1,624,440.50	1,299,552.40	958,419.89	20,126,817.77
PART E - SURFACE COURSES										
300(1)	Gravel Surface Course	510.00	cum.	1,652.91	47,241.30	608,053.88	65,694.81	52,555.85	38,759.94	813,958.68
311(1)e	Portland Cement Concrete Pavement	354.00	sq.m.	4,995.71	74,107.14	479,872.42	55,897.53	44,718.02	32,979.54	692,570.36
311(1)c	Portland Cement Concrete Pavement	23,840.00	sq.m.	276,356.69	4,099,518.74	26,632,313.04	3,100,818.85	2,480,655.08	1,829,483.12	38,419,145.51
311(1)a	Portland Cement Concrete Pavement	8,505.00	sq.m.	64,300.59	953,845.10	6,382,993.36	740,113.90	592,091.12	436,667.20	9,170,011.28
TOTAL OF PART E										
				347,305.89	5,174,712.28	34,103,232.69	3,962,525.09	3,170,020.07	2,337,869.80	49,095,685.83
PART F - DRAINAGE AND SLOPE PROTECTION STRUCTURES										
404(1)a	Reinforcing Steel	41,550.50	kg.	122,234.65	107,898.57	1,727,669.79	195,780.30	156,624.24	115,510.38	2,425,717.92
404(1)b	Reinforcing Steel	2,028.00	kg.	5,966.04	5,266.32	88,583.04	9,981.54	7,985.23	5,889.11	123,671.28
405(1)a3	Structural Concrete, Class "A"	1,185.00	cum.	1,019,243.89	481,159.52	6,584,600.63	808,500.40	646,800.32	477,015.24	10,017,320.00
407(8)	Lean Concrete	10.50	cum.	1,630.88	3,811.88	47,372.06	5,281.48	4,225.19	3,116.07	65,437.55
500(1)b1	Pipe Culverts	18.00	in.m.	2,838.61	6,857.46	36,798.35	4,649.44	3,719.55	2,743.17	57,606.59
500(1)b3	Pipe Culverts	75.00	in.m.	15,322.03	37,637.20	165,008.98	21,796.82	17,437.46	12,860.12	270,062.61
502(3)a	Catch Basin	6.00	each	13,977.99	34,813.67	88,974.69	13,776.64	11,021.31	8,128.21	170,692.51
502(4)a1	Concrete Cover	6.00	each	430.09	591.11	34,942.15	3,596.34	2,877.07	2,121.84	44,558.59
503(1)	Metal Frame & Grating	6.00	set	524.01	52.40	28,200.00	2,877.64	2,302.11	1,697.81	35,653.97
505(2)a	Grouted Riprap, Class "A"	21.00	cum.	8,896.10	5,392.41	56,486.82	7,077.53	5,662.03	4,175.74	87,690.63
506(1)	Stone Masonry	103.00	cum.	34,088.49	26,598.24	358,057.48	41,874.42	33,499.54	24,705.91	518,824.07
TOTAL OF PART F										
				1,225,152.78	710,078.77	9,216,693.99	1,115,192.55	892,154.04	657,963.61	13,817,235.74
PART G - MISCELLANEOUS STRUCTURES										
600(3)	Concrete Curb & Gutter	122.00	in.m.	7,584.49	5,327.53	96,873.43	10,978.54	8,782.84	6,477.34	136,024.17
601(1)	Slidewalk	244.00	sq.m.	9,899.69	9,449.21	121,445.21	14,079.41	11,263.53	8,306.85	174,443.89
605(2)z2	Regulatory Signs (R5-4C)	2.00	each	434.90	434.99	18,832.80	1,576.22	1,162.46	24,411.63	24,411.63
612(1)	ReflectORIZED Thermoplastic Pavement Markings (White)	838.00	sq.m.	14,881.87	37,161.85	567,342.80	61,938.65	49,550.92	36,543.80	767,419.90
612(2)	ReflectORIZED Thermoplastic Pavement Markings (Yellow)	268.50	sq.m.	4,768.24	11,906.87	201,986.86	21,866.20	17,492.96	12,901.06	270,922.17
TOTAL OF PART G										
				37,569.19	64,280.44	1,006,481.09	110,833.07	88,666.46	65,391.51	1,373,221.77
T O T A L										
				2,265,602.35	13,363,863.84	60,206,019.68	7,420,390.94	5,984,756.61	4,482,031.67	93,702,665.10


JORGE E. BASTIAN, JR., ESQ.
Regional Director

UNIT COST ANALYSIS FOR HAULING COST FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

DESCRIPTION	QUANTITY (Bags)
Portland Cement Concrete Pavement	941.64
Portland Cement Concrete Pavement	52,209.60
Portland Cement Concrete Pavement	12,162.15
Structural Concrete, Class "A"	11,257.50
Lean Concrete	99.75
Pipe Culverts	13.93
Pipe Culverts	81.00
Catch Basin	106.20
Concrete Cover	8.58
Grouted Riprap, Class "A"	63.00
Stone Masonry	566.50
Concrete Curb & Gutter	157.38
Sidewalk	231.80
Regulatory Signs (R5-4C)	2.64
Construction of Field Office for the Engineer	90.00
T O T A L	77,991.67

Quantity = **77,991.67** Bags

Delivery Charge = P 0.120 / bag / km.

S I T E	HAULING DISTANCE
Zamboanga City DEO	30.00
Batching plant	

*Average hauling distance from Source to assumed Stockpiling area :
say 30.00 km.

Delivery Charge = P 0.120 x 30.00
= P **3.60** / bag

*Delivery Truck : 77,991.67 bags., (hauling works)
20,000.00 kgs., (capacity per haul)
or 500.00 bags, (capacity per haul)

*Capacity of Laborers unloading bags of Cement from Delivery Truck :
Assume (10) laborers can unload 500.00 bags of Cement.

*Dumptruck (10 Wheeler) days computation : **TIME-MOTION ANALYSIS**

Speed when loaded	:	30.00	kph	
Speed when unloaded	:	40.00	kph	
Loaded running	=	$\frac{30.00}{30.00} \times 60$	=	60.00 mins.
Unloaded running	=	$\frac{30.00}{40.00} \times 60$	=	45.00 mins.
Loading and Unloading	:	45.00	mins.	
allowance for delay/traffic	:	3.00	mins.	
Capacity of Dumptruck	:	8.00	cu.m.	
	:	500.00	bags	
Total Cycle time	:	153.00	mins.	
No. of trips for Dumptruck per day	=	$\frac{8.0 \times 60.00}{153.00}$	=	3.14 say 3.14 trip
Dumptruck daily output	=	500 x 3.14	=	1,568.63 cu.m.
Using (3) Dumptrucks	=	3 x 1568.63	=	4,705.88 cu.m.

W

1. No. of days for Delivery Truck = $\frac{77,991.67}{4,705.88} = 16.57$ say 16.57 days
2. No. of days for Labor, for unloading = complimentary to D. Truck days = 16.57 days

DELIVERY COST :

77,991.67 - Bags, Portland Cement	@ P	3.60	/ bag	= P	280,770.02
			Sub - Total	P	280,770.02

LABOR :

1 - Foreman	@ P	611.92 /day	x 16.57 days	= P	10,141.49
10 - Laborers, unloading	@ P	342.24 /day	x 16.57 days	= P	56,720.22
			Sub - Total	P	66,861.71

MATERIALS :

77,991.67 - Bags, Portland Cement (Pick-Up Price)	@ P	280.00	/ bag	= P	21,837,668.16
			Sub - Total	P	21,837,668.16

Estimated Quantity		77,991.67 Bags		
Unit Cost	P	284.46 / Bag,	say P	285.00 / Bag
Grand Total	P	22,185,299.89		
Delivery Cost	P	280,770.02		
Labor	P	66,861.71		
Materials	P	21,837,668.16		

W

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the Quarry to Batching plant

Item No. : ALL AGGREGATES Terrain : Flat to Rolling
 Quantity : 1,000.00 Unit : cu.m.
 Hauling Distance : 5.00 km.
 Effective Working Hours : 8.00 hrs.

Hauling: Using 10.00 cu.m.capacity Dumptruck

Weight of Dumptruck (cap. 10.00 cu.m.) : 16,000.00 kgs.
 Unit weight of Fine Aggregates : 1,640.00 kg/m³
 Unit weight of Coarse Aggregates : 1,534.00 kg/m³
 Maximum Volume to be Carried per DT : 11.57 cu.m.

*Dumptruck (10 Wheeler) days computation : TIME-MOTION ANALYSIS

Speed when loaded	:	30.00	kph	
Speed when unloaded	:	40.00	kph	
Loaded running	=	$\frac{5.00 \times 60}{30.00}$	=	10.00 mins.
Unloaded running	=	$\frac{5.00 \times 60}{40.00}$	=	7.50 mins.
Loading and Unloading	:	5.00	mins.	
allowance for delay/traffic	:	3.00	mins.	
Capacity of Dumptruck	:	10.00	cu.m.	
Total Cycle time	:	25.50	mins.	
No. of trips for Dumptruck per day	=	$\frac{8 \times 60.00}{25.50}$	=	18.82 say 18.82 trips
Dumptruck daily output	=	10 x 18.82	=	188.24 cu.m.
Using (5) Dumptrucks	=	5 x 188.24	=	941.18 cu.m.
1. No. of days for Dumptrucks	=	$\frac{1,000.00}{941.18}$	=	1.06 say 1.06 days

EQUIPMENT USED : (2009 ACEL RATES)

5 - Unit Dumptruck	@ P	11,360.00 /day	x	1.06 days	= P	60,350.00
				Sub - Total	P	60,350.00
Estimated Quantity		1,000.00	cu.m.			
Unit Cost	P	12.07	/cu. m./km.	(Unit Cost, Hauling per cu.m.per km.)		
Grand Total	P	60,350.00				
Equipment	P	60,350.00				
Labor	P					
Materials	P					

	Hauling Distance		Unit Cost per cu.m./km.		Hauling Cost per cu.m.		Unit Price		Unit Cost per cu.m.
Cost of Fine Aggregates:	25.00	x	12.07	=	301.75	+	901.00	=	1,202.75
Cost of Coarse Aggregates:	25.00	x	12.07	=	301.75	+	901.00	=	1,202.75
Cost of Item 200 Materials:	25.00	x	12.07	=	301.75	+	680.00	=	981.75
Cost of Item 300 Materials:	25.00	x	12.07	=	301.75	+	735.00	=	1,036.75
Cost of Boulders:	25.00	x	12.07	=	301.75	+	1,100.00	=	1,401.75
Cost of Embankment, Common Borrow:	5.00	x	12.07	=	60.35	+	328.00	=	388.35

Handwritten signature