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)

NAME/LOCATION OF PROJECT : Road Widening - Primary Roads Ipil - Liloy - Sindangan Road	Appropriation	:	P 150,000,000.00
	Source of Funds	:	CY 2018 Regular Infra Project
	Issued Obligated Authority	:	
	Released	:	
PROJECT CATEGORY : NATIONAL ROAD	Cal. Days to Complete	:	240 Calendar Days
	Desirable Starting Date	:	Upon Approval
	Mode of Implementation	:	By Contract

PROJECT DESCRIPTION :

Scope of Work : Road Widening

Shoulder Width : 6.70 meters width, (PCCP 0.28 m. thk.)

Subbase Course : 0.30 meters thickness

STATION LIMITS:

K 1999+866.00 - K 2002+400.00

K 2008+517.00 - K 2011+206.00

Net Length: **5.223** KM; 10.45 LANE KM.

MINIMUM EQUIPMENT REQUIREMENT : TECHNICAL PERSONNEL REQUIRED :

Description	No.	Description	No.	Description	No.
Bulldozer (155 HP), D65A-8	1	One Bagger Mixer	1	Project Engineer	1
Payloader (1.50 cu.m.)	1	Concrete Paver, GP-2000 Slipform	1	Materials Engineer	1
Motorized Road Grader, G710A	1	Transit Mixer (5 cu.m.)	4	Materials Lab. Tech.	1
Vibratory Roller (10 m.t.), SP56	1	Concrete Saw, Blade Ø 14" (7.5 Hp)	1	Surveyor	1
Batching Plant (30 cu.m.)	1	Bar Cutter, Single Phase	1	Safety Practitioner	1
Dumptruck (10 cu.m.)	4	Bar Bender	1	Foreman	2
Backhoe (0.80 cu.m.)	2	Concrete Vibrator	2	Carpenter	8
Water Truck	2	Truck Mounted Crane	1	Mason	10
Cargo Truck (10T, 270 Hp)	2	Plate Compactor	1	Laborer	20

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART A - FACILITIES FOR THE ENGINEER						
A.1.1(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	0.421	l.s.	1.00	474,857.61	474,857.61
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the	0.078	l.s.	1.00	87,485.00	87,485.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	0.290	l.s.	1.00	327,269.60	327,269.60
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey and Staking	0.100	km	5.22	113,319.05	21,696.16
B.5	Project Billboard/Signboard	0.011	unit	2.00	12,909.20	6,454.60
B.7	Occupational Safety and Health Program	0.126	l.s.	1.00	141,658.24	141,658.24
B.9	Mobilization & Demobilization	0.958	l.s.	1.00	1,080,480.00	1,080,480.00
PART C - EARTHWORKS						
101(6)	Removal of Structures and Obstructions	0.055	cu.m.	193.00	61,686.56	319.62
102(2)	Surplus Common Excavation	0.682	cu.m.	5,307.50	768,987.09	144.89
103(3)	Foundation Fill	0.028	cu.m.	14.50	31,343.55	2,161.62
103(6)a	Pipe Culvert and Drain Excavation	0.031	cu.m.	151.50	34,862.52	230.12
104(1)a1	Embankment (from Excavation)	2.824	cu.m.	27,635.00	3,185,821.25	115.28
105(1)a	Subgrade Preparation	0.663	sq.m.	46,783.00	747,522.17	15.98
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course, 0.30m. Thick	33.013	cu.m.	20,677.00	37,244,108.80	1,801.23
300(1)	Gravel Surface Course, 0.15m thk.	3.949	cu.m.	2,530.50	4,455,194.71	1,760.60

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART E - SURFACE COURSE						
311(1)e1	PCC Pavement Conventional Method, 280 mm thk.	54.082	sq.m.	34,994.00	61,013,198.19	1,743.53
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	0.485	sq.m.	540.00	547,493.79	1,013.88
404(1)b	Reinforcing Steel Bar, (Grade 60)	0.071	Kg.	1,539.50	80,072.14	52.01
405(1)a3	Structural Concrete, Class "A" (21 Mpa)	0.337	cu.m.	53.00	380,237.07	7,174.28
405(1)b3	Structural Concrete, Class "A" (28 Mpa)	0.124	cu.m.	18.50	140,266.93	7,582.00
407(8)	Lean Concrete	0.008	cu.m.	1.50	9,457.72	6,305.14
500(1)b4	Reinf. Conc. Culvert Pipe, (1070mm dia.)	0.027	ln.m.	7.00	30,110.05	4,301.44
500(1)b3	Reinf. Conc. Culvert Pipe, (910mm dia.)	0.312	ln.m.	110.00	352,459.71	3,204.18
505(1)a	Grouted Riprap,Class "A"	0.157	cu.m.	45.00	177,521.84	3,944.93
506(1)	Stone Masonry	0.479	cu.m.	121.00	540,775.30	4,469.22
PART H - MISCELLANEOUS STRUCTURES						
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.690	sq.m.	1,044.50	777,944.68	744.80
TOTAL		100.000			**P 112,817,042.77**	

NAME OF PROJECT : Road Widening - Primary Roads
Ipil - Liloy - Sindangan Road

STATION LIMITS: K 1999+866.00 - K 2002+400.00
K 2008+517.00 - K 2011+206.00

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Materials	64.07	96,107,923.50
A.2. Labor	0.77	1,149,920.79
A.3. Equipment Expenses	10.37	15,559,198.48
SUB-TOTAL (DIRECT COST)	75.21	P 112,817,042.77
B. INDIRECT COST (Per D.O. # 197 s.2016)		
B.1. Overhead, Contingency & Misc. (10% Max. of D.C.)	7.41	11,118,014.99
B.2. Profit (8 % Max. of D.C.)	5.94	8,912,743.45
C. VAT (5% of D.C. and I.C.)	4.43	6,642,390.06
SUBTOTAL (CONTRACT COST)	92.99	P 139,490,191.27
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.50%)	3.50	5,250,000.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW	3.33	5,000,000.00
4. Physical Reserved	0.17	259,808.73
TOTAL ESTIMATED PROJECT COST	100.00	P 150,000,000.00

Prepared:

MICHAEL D. TORINO
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

Road Widening - Primary Roads
Ipil - Liloy - Sindangan Road

SUMMARY OF DETAILED ESTIMATES

ITEM NO.	DESCRIPTION	EQUIPMENT	LABOR	MATERIALS	TOTAL
PART A - FACILITIES FOR THE ENGINEER					
A.1.1(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	33,798.53	87,665.28	353,393.80	474,857.61
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the	-	-	87,485.00	87,485.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	-	74,457.60	252,812.00	327,269.60
PART B - OTHER GENERAL REQUIREMENTS					
B.4(1)	Construction Survey and Staking	7,399.25	68,382.30	37,537.50	113,319.05
B.5	Project Billboard/Signboard	-	3,479.20	9,430.00	12,909.20
B.7	Occupational Safety and Health Program	-	100,158.24	41,500.00	141,658.24
B.9	Mobilization & Demobilization	1,080,480.00	-	-	1,080,480.00
PART C - EARTHWORKS					
101(6)	Removal of Structures and Obstructions	57,489.78	4,196.79	-	61,686.56
102(2)	Surplus Common Excavation	758,236.08	10,751.00	-	768,987.09
103(3)	Foundation Fill	1,998.23	2,872.28	26,473.05	31,343.55
103(6)a	Pipe Culvert and Drain Excavation	33,310.93	1,551.59	-	34,862.52
104(1)a1	Embankment (from Excavation)	3,103,869.24	81,952.01	-	3,185,821.25
105(1)a	Subgrade Preparation	722,251.55	25,270.62	-	747,522.17
PART D - SUBBASE AND BASE COURSE					
200(1)	Aggregate Subbase Course, 0.30m. Thick	1,915,310.51	51,198.32	35,277,599.97	37,244,108.80
300(1)	Gravel Surface Course, 0.15m thk.	234,400.22	8,201.35	4,212,593.14	4,455,194.71
PART E - SURFACE COURSE					
311(1)e1	PCC Pavement Conventional Method, 280 mm thk.	7,324,557.78	470,565.84	53,218,074.58	61,013,198.19
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	91,855.73	4,082.58	451,555.48	547,493.79
404(1)b	Reinforcing Steel Bar, (Grade 60)	6,385.29	4,528.95	69,157.90	80,072.14
405(1)a3	Structural Concrete, Class "A" (21 Mpa)	20,986.58	34,913.75	324,336.74	380,237.07
405(1)b3	Structural Concrete, Class "A" (28 Mpa)	7,325.50	12,186.88	120,754.56	140,266.93
407(8)	Lean Concrete	578.86	686.07	8,192.79	9,457.72
500(1)b4	Reinf. Conc. Culvert Pipe, (1070mm dia.)	4,040.59	1,672.58	24,396.87	30,110.05
500(1)b3	Reinf. Conc. Culvert Pipe, (910mm dia.)	54,424.29	22,528.63	275,506.79	352,459.71
505(1)a	Grouted Riprap,Class "A"	20,133.54	19,063.08	138,325.22	177,521.84
506(1)	Stone Masonry	34,046.73	41,006.80	465,721.77	540,775.30
PART H - MISCELLANEOUS STRUCTURES					
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	46,319.27	18,549.07	713,076.34	777,944.68
	TOTAL	**15,559,198.48**	**1,149,920.79**	**96,107,923.50**	**112,817,042.77**

PROJECT : Road Widening - Primary Roads
Ipil - Liloy - Sindangan Road

STA. LIMITS: : K 1999+866.00 - K 2002+400.00
K 2008+517.00 - K 2011+206.00

NET LENGTH **5.223** KM.

6 WORKING DAYS

ITEM NO.	DESCRIPTION	QUANTITY	DURATION NO. OF DAYS
A.1.1(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	1.00	24.00
A.1.1(11)	Provision of Furnitures/Fixtures, Equipment and Appliances for the	1.00	168.00
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	1.00	168.00
B.4(1)	Construction Survey and Staking	5.22	26.12
B.5	Project Billboard/Signboard	2.00	2.00
B.7	Occupational Safety and Health Program	1.00	168.00
B.9	Mobilization & Demobilization	1.00	6.00
101(6)	Removal of Structures and Obstructions	193.00	2.41
102(2)	Surplus Common Excavation	5,307.50	8.29
103(3)	Foundation Fill	14.50	1.45
103(6)a	Pipe Culvert and Drain Excavation	151.50	0.95
104(1)a1	Embankment (from Excavation)	27,635.00	34.54
105(1)a	Subgrade Preparation	46,783.00	19.49
200(1)	Aggregate Subbase Course, 0.30m. Thick	20,677.00	25.85
300(1)	Gravel Surface Course, 0.15m thk.	2,530.50	6.33
311(1)e1	PCC Pavement Conventional Method, 280 mm thk.	34,994.00	38.04
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	540.00	0.63
404(1)b	Reinforcing Steel Bar, (Grade 60)	1,539.50	1.07
405(1)a3	Structural Concrete, Class "A" (21 Mpa)	53.00	4.73
405(1)b3	Structural Concrete, Class "A" (28 Mpa)	18.50	1.65
407(8)	Lean Concrete	1.50	0.13
500(1)b4	Reinf. Conc. Culvert Pipe, (1070mm dia.)	7.00	0.58
500(1)b3	Reinf. Conc. Culvert Pipe, (910mm dia.)	110.00	7.86
505(1)a	Grouted Riprap,Class "A"	45.00	4.50
506(1)	Stone Masonry	121.00	9.68
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	1,044.50	5.22

Weeks: W1 W2 W3 W4 W5 W6 W7 W8 W9 W10 W11 W12 W13 W14 W15 W16 W17 W18 W19 W20 W21 W22 W23 W24 W25 W26 W27 W28 W29 W30 W31 W32 W33 W34 W35

TOTAL WORKING DAYS	:	168
SUNDAYS & HOLIDAYS		36
INCLEMENT WEATHER & CURING		36
TOTAL NO. OF CAL. DAYS		240

Prepared by :
MICHAEL D. TORINO
Engineer I

Checked by:
JERALD R. BARRERA
Engineer II

Submitted by:
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

Road Widening - Primary Roads
Ipil - Liloy - Sindangan Road

Contract Duration : 240.00 C.D.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) (5) x (8)	(10) 5%[(5) + (9)	(11) (9) + (10)	(12) (5) + (11)	(13) (12) / (3)
PART A - FACILITIES FOR THE ENGINEER												
A.1.1(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	1.00	l.s.	474,857.61	10.00	8.00	18.00	85,474.37	28,016.60	113,490.97	588,348.58	588,348.58
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the	1.00	l.s.	87,485.00	0.00	8.00	8.00	6,998.80	4,724.19	11,722.99	99,207.99	99,207.99
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle	1.00	l.s.	327,269.60	0.00	0.00	0.00	-	16,363.48	16,363.48	343,633.08	343,633.08
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey and Staking	5.22	km	113,319.05	10.00	8.00	18.00	20,397.43	6,685.82	27,083.25	140,402.30	26,881.54
B.5	Project Billboard/Signboard	2.00	unit	12,909.20	10.00	8.00	18.00	2,323.66	761.64	3,085.30	15,994.50	7,997.25
B.7	Occupational Safety and Health Program	1.00	l.s.	141,658.24	0.00	8.00	8.00	11,332.66	7,649.54	18,982.20	160,640.44	160,640.44
B.9	Mobilization & Demobilization	1.00	l.s.	1,080,480.00	0.00	0.00	0.00	-	54,024.00	54,024.00	1,134,504.00	1,134,504.00
PART C - EARTHWORKS												
101(6)	Removal of Structures and Obstructions	193.00	cu.m.	61,686.56	10.00	8.00	18.00	11,103.58	3,639.51	14,743.09	76,429.65	396.01
102(2)	Surplus Common Excavation	5,307.50	cu.m.	768,987.09	10.00	8.00	18.00	138,417.68	45,370.24	183,787.91	952,775.00	179.51
103(3)	Foundation Fill	14.50	cu.m.	31,343.55	10.00	8.00	18.00	5,641.84	1,849.27	7,491.11	38,834.66	2,678.25
103(6)a	Pipe Culvert and Drain Excavation	151.50	cu.m.	34,862.52	10.00	8.00	18.00	6,275.25	2,056.89	8,332.14	43,194.66	285.11
104(1)a1	Embankment (from Excavation)	27,635.00	cu.m.	3,185,821.25	10.00	8.00	18.00	573,447.82	187,963.45	761,411.28	3,947,232.53	142.83
105(1)a	Subgrade Preparation	46,783.00	cu.m.	747,522.17	10.00	8.00	18.00	134,553.99	44,103.81	178,657.80	926,179.96	19.80
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course, 0.30m. Thick	20,677.00	cu.m.	37,244,108.80	10.00	8.00	18.00	6,703,939.58	2,197,402.42	8,901,342.00	46,145,450.80	2,231.73
300(1)	Gravel Surface Course, 0.15m thk.	2,530.50	cu.m.	4,455,194.71	10.00	8.00	18.00	801,935.05	262,856.49	1,064,791.53	5,519,986.24	2,181.38
PART E - SURFACE COURSE												
311(1)e1	PCC Pavement Conventional Method, 280 mm thk.	34,994.00	sq.m.	61,013,198.19	10.00	8.00	18.00	10,982,375.67	3,599,778.69	14,582,154.37	75,595,352.56	2,160.24
311(1)a	Portland Cement Concrete Pavement, 0.15m. Thick	540.00	sq.m.	547,493.79	10.00	8.00	18.00	98,548.88	32,302.13	130,851.02	678,344.81	1,256.19
404(1)b	Reinforcing Steel Bar, (Grade 60)	1,539.50	Kg.	80,072.14	10.00	8.00	18.00	14,412.99	4,724.26	19,137.24	99,209.39	64.44

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) (5) x (8)	(10) 5%[(5) + (9)]	(11) (9) + (10)	(12) (5) + (11)	(13) (12) / (3)
405(1)a3	Structural Concrete, Class "A" (21 Mpa)	53.00	cu.m.	380,237.07	10.00	8.00	18.00	68,442.67	22,433.99	90,876.66	471,113.72	8,888.94
405(1)b3	Structural Concrete, Class "A" (28 Mpa)	18.50	cu.m.	140,266.93	10.00	8.00	18.00	25,248.05	8,275.75	33,523.80	173,790.73	9,394.09
407(8)	Lean Concrete	1.50	cu.m.	9,457.72	10.00	8.00	18.00	1,702.39	558.01	2,260.39	11,718.11	7,812.07
500(1)b4	Reinf. Conc. Culvert Pipe, (1070mm dia.)	7.00	ln.m.	30,110.05	10.00	8.00	18.00	5,419.81	1,776.49	7,196.30	37,306.35	5,329.48
500(1)b3	Reinf. Conc. Culvert Pipe, (910mm dia.)	110.00	ln.m.	352,459.71	10.00	8.00	18.00	63,442.75	20,795.12	84,237.87	436,697.58	3,969.98
505(1)a	Grouted Riprap,Class "A"	45.00	cu.m.	177,521.84	10.00	8.00	18.00	31,953.93	10,473.79	42,427.72	219,949.56	4,887.77
506(1)	Stone Masonry	121.00	cu.m.	540,775.30	10.00	8.00	18.00	97,339.55	31,905.74	129,245.30	670,020.60	5,537.36
PART H - MISCELLANEOUS STRUCTURES												
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	1,044.50	sq.m.	777,944.68	10.00	8.00	18.00	140,030.04	45,898.74	185,928.78	963,873.45	922.81
	T O T A L			**112,817,042.77**					**6,642,390.06**		**139,490,191.27**	

Submitted :

BELEN A. SAPALLEDA
Head, BAC-TWG

Recommending Approval :

CAYAMOMBAO D. DIA
Assistant Regional Director

Approved :

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

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 101(6) Removal of Structures and Obstructions

Unit of Measurement : cu.m.

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

Quantity : 193.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	2.41	611.92	1,476.26
	b. Skilled Laborer	1	2.41	443.20	1,069.22
	c. Laborer	2	2.41	342.24	1,651.31
	Sub-total for A				**4,196.79**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	2.41	12,296.00	29,664.10
	d. Dumptruck (10 cu.m.)	1	2.41	11,360.00	27,406.00
	Minor Tools (10% of Labor)				419.68
	Sub-total for B				**57,489.78**
C.	Total (A + B)				**61,686.56**
D.	Output / day	80.00 cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**61,686.56**
G.	Overhead Contingencies & Miscellaneous (OCM)			10%	**6,168.66**
H.	Contractors Profit (CP)			8%	**4,934.93**
I.	Value Added Tax (VAT)			5%	**3,639.51**
J.	Total Unit Cost				**396.01**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 102(2) Surplus Common Excavation

Unit of Measurement : cu.m.

Output per hour : 80.00 cu.m./hr.

Quantity : 5,307.50

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	8.29	611.92	5,074.63
	b. Laborer	2	8.29	342.24	5,676.37
	Sub-total for A				**10,751.00**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Bulldozer (155 HP), D65A-8	1	8.29	27,032.00	224,175.53
	b. Payloader (1.50 cu.m.)	1	8.29	13,864.00	114,973.72
	c. Payloader (1.50 cu.m.)-at disposal area	1	2.49	13,864.00	34,492.12
	d. Dumptruck (10 cu.m.)	3	8.29	11,360.00	282,624.38
	e. Backhoe (0.80 cu.m.)	1	8.29	12,296.00	101,970.34
	Sub-total for B				**758,236.08**
C.	Total (A + B)				**768,987.09**
D.	Output / day 640.00	cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**768,987.09**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**76,898.71**
H.	Contractors Profit (CP)		8%		**61,518.97**
I.	Value Added Tax (VAT)		5%		**45,370.24**
J.	Total Unit Cost				**179.51**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

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

Unit of Measurement : cu.m.

Output per hour : 1.25 cu.m./hr.

Quantity : 14.50

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.45	611.92	887.28
	b. Laborer	4	1.45	342.24	1,984.99
	Sub-total for A				**2,872.28**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Plate Compactor (5Hp)	1	1.45	984.00	1,426.80
	b. Water Truck (16000 gal.)	1	0.01	19,600.00	284.20
	Minor Tools (10% of Labor)				287.23
	Sub-total for B				**1,998.23**
C.	Total (A + B)				**4,870.50**
D.	Output / day 10.00	cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Filling Materials	16.68	cu.m.	1,587.59	26,473.05
	Sub-total for E				**26,473.05**
F.	Direct Unit Cost (C + E)				**31,343.55**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**3,134.36**
H.	Contractors Profit (CP)		8%		**2,507.48**
I.	Value Added Tax (VAT)		5%		**1,849.27**
J.	Total Unit Cost				**2,678.25**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 103(6)a Pipe Culvert and Drain Excavation

Unit of Measurement : cu.m.

Output per hour : 20.00 cu.m./hr.

Quantity : 151.50

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.95	611.92	579.41
	b. Laborer	3	0.95	342.24	972.18
	Sub-total for A				**1,551.59**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Backhoe (0.80 cu.m.)	1	0.95	12,296.00	11,642.78
	b. Dump Truck (10 cu.m.)	2	0.95	11,360.00	21,513.00
	Minor Tools (10% of Labor)				155.16
	Sub-total for B				**33,310.93**
C.	Total (A + B)				**34,862.52**
D.	Output / day 160.00	cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**34,862.52**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**3,486.25**
H.	Contractors Profit (CP)		8%		**2,789.00**
I.	Value Added Tax (VAT)		5%		**2,056.89**
J.	Total Unit Cost				**285.11**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 104(1)a1 Embankment (from Excavation)

Unit of Measurement : cu.m.

Output per hour : 100.00 cu.m./hr.

Quantity : 27,635.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	For Excavation Work:				
	a. Construction Foreman	1	28.67	611.92	17,544.55
	b. Laborer	2	28.67	342.24	19,624.94
	For Spreading and Compaction:				
	a. Construction Foreman	1	34.54	611.92	21,138.01
	b. Laborer	2	34.54	342.24	23,644.51
	Sub-total for A				**81,952.01**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost				
	For Excavation Work:				
	a. Bulldozer (155Hp), D65A-8	1	28.67	27,032.00	775,042.92
	b. Payloader (1.50 cu.m.)	1	28.67	13,864.00	397,499.08
	c. Dump Truck (10 cu.m.)	2	28.67	11,360.00	651,412.22
	For Spreading and Compaction:				
	a. Motorized Road Grader, G710A	1	34.54	17,384.00	600,508.55
	b. Vibratory Roller (10 m.t.), SP56	1	34.54	14,768.00	510,142.10
	c. Water Truck	1	8.64	19,600.00	169,264.38
	Sub-total for B				**3,103,869.24**
C.	Total (A + B)				**3,185,821.25**
D.	Output / day 800.00	cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**3,185,821.25**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**318,582.12**
H.	Contractors Profit (CP)		8%		**254,865.70**
I.	Value Added Tax (VAT)		5%		**187,963.45**
J.	Total Unit Cost				**142.83**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	: Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN) Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206
Item No./Description	: 105(1)a Subgrade Preparation
Unit of Measurement	: sq.m.
Output per hour	: 300.00 sq.m./hr.
Quantity	: 46,783.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	19.49	611.92	11,928.11
	b. Laborer	2	19.49	342.24	13,342.51
	Sub-total for A				**25,270.62**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost				
	a. Motorized Road Grader, G710A	1	19.49	17,384.00	338,864.86
	b. Vibratory Roller (10 m.t.), SP56	1	19.49	14,768.00	287,871.39
	c. Water Truck	1	4.87	19,600.00	95,515.29
	Sub-total for B				**722,251.55**
C.	Total (A + B)				**747,522.17**
D.	Output / day 2,400.00	sq.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**747,522.17**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**74,752.22**
H.	Contractors Profit (CP)		8%		**59,801.77**
I.	Value Added Tax (VAT)		5%		**44,103.81**
J.	Total Unit Cost				**19.80**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN) Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 200(1) Aggregate Subbase Course, 0.30m. Thick

Unit of Measurement : cu.m.

Output per hour : 100.00 cu.m./hr.

Quantity : 20,677.00

Note: Use two (2) gang of labor and equipment

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	25.85	611.92	15,815.84
	b. Laborer	4	25.85	342.24	35,382.48
	Sub-total for A				**51,198.32**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Motorized Road Grader, G710A	2	25.85	17,384.00	898,622.42
	b. Vibratory Roller (10 m.t.), SP56	2	25.85	14,768.00	763,394.84
	c. Water Truck	2	6.46	19,600.00	253,293.25
	Sub-total for B				**1,915,310.51**
C.	Total (A + B)				**1,966,508.83**
D.	Output / day	800.00	cu.m./day		
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Aggregate Subbase Course (with shrinkage of 15%)	23,778.55	cu.m.	1,483.59	35,277,599.97
	Sub-total for E				**35,277,599.97**
F.	Direct Unit Cost (C + E)				**37,244,108.80**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**3,724,410.88**
H.	Contractors Profit (CP)		8%		**2,979,528.70**
I.	Value Added Tax (VAT)		5%		**2,197,402.42**
J.	Total Unit Cost				**2,231.73**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	: Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN) Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206
Item No./Description	: 300(1) Gravel Surface Course, 0.15m thk.
Unit of Measurement	: cu.m.
Output per hour	: 50.00 cu.m./hr.
Quantity	: 2,530.50

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	6.33	611.92	3,871.16
	b. Laborer	2	6.33	342.24	4,330.19
	Sub-total for A				**8,201.35**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost				
	a. Motorized Road Grader, G710A	1	6.33	17,384.00	109,975.53
	b. Vibratory Roller (10 m.t.), SP56	1	6.33	14,768.00	93,426.06
	c. Water Truck (1000 gal.)	1	1.58	19,600.00	30,998.63
	Sub-total for B				**234,400.22**
C.	Total (A + B)				**242,601.57**
D.	Output / day 400.00	cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Aggregate Surface Course (Uncrushed Grade A) (with shrinkage of 15%)	2,910.08	cu.m.	1,447.59	4,212,593.14
	Sub-total for E				**4,212,593.14**
F.	Direct Unit Cost (C + E)				**4,455,194.71**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**445,519.47**
H.	Contractors Profit (CP)		8%		**356,415.58**
I.	Value Added Tax (VAT)		5%		**262,856.49**
J.	Total Unit Cost				**2,181.38**

DETAILED UNIT PRICE ANALYSIS

Name of Project : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No. & Description : 311(1)e1 PCC Pavement Conventional Method, 280 mm thk.

Unit of Measurement : sq.m.

Output per Hour : 115.00 sq.m./hr.

Quantity : 34,994.00

Note: Use two (2) gang of labor and equipment

	Designation	No. of Persons	No. of Days	Rate/Day	Amount
A.	Labor, (D.O. 40 s2009 & D.O. 12 s2011)				
	a. Construction Foreman	1	38.04	611.92	23,275.57
	b. Skilled Laborer	8	38.04	443.20	134,863.83
	c. Laborer	24	38.04	342.24	312,426.43
	Sub-total for A				**470,565.84**
	Name and Capacity	No. of Units	No. of Days	Rate/Day	Amount
B.	Equipment, (2009 Acel Rates)				
	a. Transit Mixer (5 cu.m.)	8	38.04	10,544.00	3,208,493.36
	b. Concrete Vibrator	4	38.04	730.00	111,067.91
	c. Batching Plant (30cu.m.)	2	38.04	14,076.00	1,070,816.40
	d. Payloader (1.5 cu.m.), LX80-2C	2	38.04	13,864.00	1,054,688.73
	e. Concrete Screeder (5.5 HP)	2	38.04	4,360.00	331,682.26
	f. Water Truck	2	38.04	19,600.00	1,491,048.70
	g. Concrete Saw, Blade Dia. 14" (7.5 HP)	2	38.04	261.04	19,858.33
	h. Bar Cutter, Single Phase	2	3.80	1,758.00	13,373.79
	Minor Tools (5% of Labor)				23,528.29
	Sub-Total				**7,324,557.78**
C.	Total (A + B)				**7,795,123.62**
D.	Output per Day	920 sq.m./day			
	Name and Specification	No. of Units	Unit	Unit Cost	Amount
E.	Materials				
	a. Reinforcing Steel Bars	17,497.00	kg.	41.18	720,581.68
	b. Curing Compound	10,148.26	lit.	45.00	456,671.70
	c. Asphalt Sealant	5,948.98	lit.	71.00	422,377.58
	d. Steel Forms (Rental)	16,097.24	l.m.	60.00	965,834.40
	e. Sand	5,389.08	cu.m.	1,587.59	8,555,638.86
	f. Gravel	9,798.32	cu.m.	1,694.59	16,604,127.25
	g. Cement	93,084.04	bag	271.81	25,300,999.00
	h. Concrete Saw (diamond blade 14"Ø)	5.25	pc.	8,000.00	41,992.80
	i. Pipe Sleeves, 2" dia.	272.95	ln.m.	346.00	94,441.81
	j. Grease/Tar	272.95	lit.	203.00	55,409.50
	Sub-Total				**53,218,074.58**
F.	Direct Cost (C + E)				**61,013,198.19**
G.	Overhead Contigencies and Miscellaneous (OCM)		10%		**6,101,319.82**
H.	Contractor's profit (CP)		8%		**4,881,055.86**
I.	Value Added Tax (VAT)		5%		**3,599,778.69**
J.	Total Unit Cost				**2,160.24**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 311(1)a Portland Cement Concrete Pavement, 0.15m. Thick

Unit of Measurement : sq.m.

Output per hour : 107.33 sq.m./hr.

Quantity : 540.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.63	611.92	384.84
	b. Skilled Laborer	4	0.63	443.20	1,114.92
	c. Laborer	12	0.63	342.24	2,582.82
	Sub-total for A				**4,082.58**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Batching Plant (30 cu.m.)	1	0.63	14,076.00	8,852.42
	b. Concrete Paver (COMMANDER III, FOUR-TRACK)	1	0.63	54,120.00	34,036.15
	c. Transit Mixer (5 cu.m.)	4	0.63	10,544.00	26,524.55
	d. Payloader (1.50 cu.m.), LX80-2C	1	0.63	13,864.00	8,719.09
	e. Water Truck	1	0.63	19,600.00	12,326.47
	f. Concrete Saw, Blade Ø 14" (7.5 Hp)	1	0.63	261.04	164.17
	g. Concrete Vibrator	2	0.63	730.00	918.20
	h. Bar Cutter, Single Phase	1	0.06	1,758.00	110.56
	Minor Tools (5% of Labor)				204.13
	Sub-total for B				**91,855.73**
C.	Total (A + B)				**95,938.31**
D.	Output / day 858.64	sq.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Reinforcing Steel Bars (Grade 60)	178.20	kg.	41.18	7,338.84
	b. Curing Compound	156.60	lit.	45.00	7,047.00
	c. Asphalt Sealant	64.80	lit.	71.00	4,600.80
	d. Steel Forms (Rental)	248.40	l.m.	50.00	12,420.00
	e. Sand	44.55	cu.m.	1,587.59	70,727.10
	f. Gravel	81.00	cu.m.	1,694.59	137,261.73
	g. Cement	772.20	bags	271.81	209,890.24
	h. Concrete Saw (diamond blade 14")	0.08	pcs.	8,000.00	648.00
	i. Pipe Sleeve, 2" Ø	4.21	ln.m.	346.00	1,457.35
	j. Grease/Tar	0.81	lit.	203.00	164.43
	Sub-total for E				**451,555.48**
F.	Direct Unit Cost (C + E)				**547,493.79**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**54,749.38**
H.	Contractors Profit (CP)		8%		**43,799.50**
I.	Value Added Tax (VAT)		5%		**32,302.13**
J.	Total Unit Cost				**1,256.19**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 404(1)b Reinforcing Steel Bar, (Grade 60)

Unit of Measurement : Kg.

Output per hour : 180.00 Kg./hr.

Quantity : 1,539.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.07	611.92	654.20
b. Skilled Laborer	2	1.07	443.20	947.65
c. Laborer	8	1.07	342.24	2,927.10
Sub-total for A				**4,528.95**
Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2009 ACEL Rates)				
a. Truck Mounted Crane (31-35 MT)	1	0.16	14,888.00	2,387.51
b. Cargo Truck (10T, 270 Hp)	1	0.16	9,696.00	1,554.90
c. Bar Cutter	1	0.53	1,758.00	939.74
d. Bar Bender	1	0.53	2,812.00	1,503.15
Sub-total for B				**6,385.29**
C. Total (A + B)				**10,914.24**
D. Output / day 1,440.00	Kg./day			
Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Reinforcing Steel Bars, Grade 40 (w/ 5% wastage)	1,616.48	kg.	41.18	66,571.54
b. Tie Wire (2% of RSB)	32.33	kg.	80.00	2,586.36
Sub-total for E				**69,157.90**
F. Direct Unit Cost (C + E)				**80,072.14**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		**8,007.21**
H. Contractors Profit (CP)		8%		**6,405.77**
I. Value Added Tax (VAT)		5%		**4,724.26**
J. Total Unit Cost				**64.44**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 405(1)a3 Structural Concrete, Class "A" (21 Mpa)

Unit of Measurement : cu.m.

Output per hour : 1.40 cu.m./hr.

Quantity : 53.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	4.73	611.92	2,895.69
b. Skilled Laborer	4	4.73	443.20	8,389.14
c. Laborer	8	4.73	342.24	12,956.23
Installation & Removal of Formworks/Falseworks:				
a. Skilled Laborer	2	4.73	443.20	4,194.57
b. Laborer	4	4.73	342.24	6,478.11
Sub-total for A				**34,913.75**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2009 ACEL Rates)				
a. One Bagger Mixer	1	4.73	1,376.00	6,511.43
b. Concrete Vibrator	1	4.73	730.00	3,454.46
c. Water Truck	1	0.47	19,600.00	9,275.00
Minor Tools (5% of Labor)				1,745.69
Sub-total for B				**20,986.58**
C. Total (A + B)				**55,900.33**
D. Output / day	11.20	cu.m./day		
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Good Lumber - 4 uses	927.50	bd.ft.	40.00	37,100.00
b. Marine Plywood (1/2" x 4' x 8') - 4 uses	21.20	pcs.	750.00	15,900.00
c. Assorted CW Nails	37.10	kg.	70.00	2,597.00
d. Portland Cement	503.50	bag	271.81	136,855.39
e. Sand	26.50	cu.m.	1,587.59	42,071.11
f. Gravel	53.00	cu.m.	1,694.59	89,813.23
Sub-total for E				**324,336.74**
F. Direct Unit Cost (C + E)				**380,237.07**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		**38,023.71**
H. Contractors Profit (CP)		8%		**30,418.97**
I. Value Added Tax (VAT)		5%		**22,433.99**
J. Total Unit Cost				**8,888.94**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 405(1)b3 Structural Concrete, Class "A" (28 Mpa)

Unit of Measurement : cu.m.

Output per hour : 1.40 cu.m./hr.

Quantity : 18.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.65	611.92	1,010.76
b. Skilled Laborer	4	1.65	443.20	2,928.29
c. Laborer	8	1.65	342.24	4,522.46
Installation & Removal of Formworks/Falseworks:				
a. Skilled Laborer	2	1.65	443.20	1,464.14
b. Laborer	4	1.65	342.24	2,261.23
Sub-total for A				**12,186.88**

Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B. Equipment Cost (2009 ACEL Rates)				
a. One Bagger Mixer	1	1.65	1,376.00	2,272.86
b. Concrete Vibrator	1	1.65	730.00	1,205.80
c. Water Truck	1	0.17	19,600.00	3,237.50
Minor Tools (5% of Labor)				609.34
Sub-total for B				**7,325.50**
C. Total (A + B)				**19,512.38**
D. Output / day	11.20	cu.m./day		

Name and Specification	Quantity	Unit	Unit Cost	Total
E. Materials				
a. Good Lumber - 4 uses	323.75	bd.ft.	40.00	12,950.00
b. Marine Plywood (1/2" x 4' x 8') - 4 uses	7.40	pcs.	750.00	5,550.00
c. Assorted CW Nails	12.95	kg.	70.00	906.50
d. Portland Cement	203.50	bag	271.81	55,312.95
e. Sand	9.25	cu.m.	1,587.59	14,685.20
f. Gravel	18.50	cu.m.	1,694.59	31,349.90
Sub-total for E				**120,754.56**
F. Direct Unit Cost (C + E)				**140,266.93**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		**14,026.69**
H. Contractors Profit (CP)		8%		**11,221.35**
I. Value Added Tax (VAT)		5%		**8,275.75**
J. Total Unit Cost				**9,394.09**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 407(8) Lean Concrete
Unit of Measurement : cu.m.
Output per hour : 1.40 cu.m./hr.
Quantity : 1.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	0.13	611.92	81.95
b. Skilled Laborer	4	0.13	443.20	237.43
c. Laborer	8	0.13	342.24	366.69
Sub-total for A				**686.07**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2009 ACEL Rates)				
a. One Bagger Mixer	1	0.13	1,376.00	184.29
b. Concrete Vibrator	1	0.13	730.00	97.77
c. Water Truck	1	0.01	19,600.00	262.50
Minor Tools (5% of Labor)				34.30
Sub-total for B				**578.86**
C. Total (A + B)				**1,264.92**
D. Output / day	11.20 cu.m./day			
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Form Lumber	0.12	bd.ft.	40.00	4.95
b. Marine Plywood (1/2" x 4' x 8')	0.60	pcs.	795.00	477.00
c. Assorted CW Nails	1.50	kg.	70.00	105.00
d. Portland Cement	14.25	bag	271.81	3,873.27
e. Sand	0.75	cu.m.	1,587.59	1,190.69
f. Gravel	1.50	cu.m.	1,694.59	2,541.88
Sub-total for E				**8,192.79**
F. Direct Unit Cost (C + E)				**9,457.72**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		**945.77**
H. Contractors Profit (CP)		8%		**756.62**
I. Value Added Tax (VAT)		5%		**558.01**
J. Total Unit Cost				**7,812.07**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 500(1)b4 Reinf. Conc. Culvert Pipe, (1070mm dia.)

Unit of Measurement : ln.m.

Output per hour : 1.50 ln.m./hr.

Quantity : 7.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	0.58	611.92	356.95
	b. Skilled Laborer	2	0.58	443.20	517.07
	c. Laborer	4	0.58	342.24	798.56
	Sub-total for A				**1,672.58**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Backhoe (0.80 cu.m)	1	0.29	12,296.00	3,586.33
	b. Plate Compactor (5 Hp)	1	0.29	984.00	287.00
	Minor Tools (10% of Labor)				167.26
	Sub-total for B				**4,040.59**
C.	Total (A + B)				**5,713.17**
D.	Output / day	12.00	ln.m./day		
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Portland Cement	8.69	bag	271.81	2,363.10
	b. Sand	0.49	cu.m	1,587.59	777.92
	c. R.C. Pipes (1070mm dia.)	7.00	pc.	2,800.00	19,600.00
	d. Sand Bedding/Selected Sandy Soil	1.04	cu.m	1,587.59	1,655.86
	Sub-total for E				**24,396.87**
F.	Direct Unit Cost (C + E)				**30,110.05**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**3,011.00**
H.	Contractors Profit (CP)		8%		**2,408.80**
I.	Value Added Tax (VAT)		5%		**1,776.49**
J.	Total Unit Cost				**5,329.48**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 500(1)b3 Reinf. Conc. Culvert Pipe, (910mm dia.)

Unit of Measurement : ln.m.

Output per hour : 1.75 ln.m./hr.

Quantity : 110.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	7.86	611.92	4,807.94
	b. Skilled Laborer	2	7.86	443.20	6,964.57
	c. Laborer	4	7.86	342.24	10,756.11
	Sub-total for A				**22,528.63**
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2009 ACEL Rates)				
	a. Backhoe (0.80 cu.m)	1	3.93	12,296.00	48,305.71
	b. Plate Compactor (5 Hp)	1	3.93	984.00	3,865.71
	Minor Tools (10% of Labor)				2,252.86
	Sub-total for B				**54,424.29**
C.	Total (A + B)				**76,952.92**
D.	Output / day	14.00	ln.m./day		
	Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E.	Materials				
	a. Portland Cement	118.80	bag	271.81	32,290.81
	b. Sand	6.71	cu.m	1,587.59	10,652.72
	c. R.C. Pipes - Class II (910mm dia.)	110.00	pc.	1,911.00	210,210.00
	d. Sand Bedding/Selected Sandy Soil	14.08	cu.m	1,587.59	22,353.26
	Sub-total for E				**275,506.79**
F.	Direct Unit Cost (C + E)				**352,459.71**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**35,245.97**
H.	Contractors Profit (CP)		8%		**28,196.78**
I.	Value Added Tax (VAT)		5%		**20,795.12**
J.	Total Unit Cost				**3,969.98**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 505(1)a Grouted Riprap,Class "A"

Unit of Measurement : cu.m.

Output per hour : 1.25 cu.m./hr.

Quantity : 45.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	4.50	611.92	2,753.64
	b. Skilled Laborer	2	4.50	443.20	3,988.80
	c. Laborer	8	4.50	342.24	12,320.64
	Sub-total for A				**19,063.08**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. One Bagger Mixer	1	4.50	1,376.00	6,192.00
	b. Water Truck	1	0.23	19,600.00	4,410.00
	Minor Tools (5% of Labor)				9,531.54
	Sub-total for B				**20,133.54**
C.	Total (A + B)				**39,196.62**
D.	Output / day 10.00 cu.m./day				
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Cement	135.00	bag	271.81	36,694.10
	b. Sand	11.25	cu.m.	1,587.59	17,860.38
	c. Gravel Fill	0.68	cu.m.	1,694.59	1,143.85
	d. Weep Holes 50 mm.(2") Ø PVC Pipe	13.50	ln.m.	346.00	4,671.00
	e. Filter Cloth	0.68	sq.m.	160.00	108.00
	f. Boulders	47.25	cu.m.	1,618.59	76,478.34
	Miscellaneous (1% of Materials)				1,369.56
	Sub-total for E				**138,325.22**
F.	Direct Unit Cost (C + E)				**177,521.84**
G.	Overhead Contingencies & Miscellaneous (OCM)			10%	**17,752.18**
H.	Contractors Profit (CP)			8%	**14,201.75**
I.	Value Added Tax (VAT)			5%	**10,473.79**
J.	Total Unit Cost				**4,887.77**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN) Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 506(1) Stone Masonry
Unit of Measurement : cu.m.
Output per hour : 1.5625 cu.m./hr.
Quantity : 121.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	9.68	611.92	5,923.39
	b. Skilled Laborer	2	9.68	443.20	8,580.35
	c. Laborer	8	9.68	342.24	26,503.07
	Sub-total for A				**41,006.80**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. One Bagger Mixer	1	9.68	1,376.00	13,319.68
	b. Water Truck	1	0.48	19,600.00	9,486.40
	c. Backhoe (wheel type 0.28 cu.m.)	1	0.97	7,376.00	7,139.97
	Minor Tools (10% of Labor)				4,100.68
	Sub-total for B				**34,046.73**
C.	Total (A + B)				**75,053.53**
D.	Output / day 12.50	cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Cement	665.50	bag	271.81	180,888.31
	b. Sand	36.30	cu.m.	1,587.59	57,629.49
	c. Gravel Fill	2.42	cu.m.	1,694.59	4,100.91
	d. Weep Holes 50 mm.(2") Ø PVC Pipe	36.30	ln.m.	346.00	12,559.80
	e. Filter Cloth	1.82	sq.m.	160.00	290.40
	f. Boulders	127.05	cu.m.	1,618.59	205,641.76
	Miscellaneous (1% of Materials)				4,611.11
	Sub-total for E				**465,721.77**
F.	Direct Unit Cost (C + E)				**540,775.30**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**54,077.53**
H.	Contractors Profit (CP)		8%		**43,262.02**
I.	Value Added Tax (VAT)		5%		**31,905.74**
J.	Total Unit Cost				**5,537.36**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : 612(1) Reflectorized Thermoplastic Pavement Markings (White)

Unit of Measurement : sq.m.

Output per hour : 25.00 sq.m./hr.

Quantity : 1,044.50

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	5.22	611.92	3,195.75
	b. Skilled Laborer	2	5.22	443.20	4,629.22
	c. Laborer	6	5.22	342.24	10,724.09
	Sub-total for A				**18,549.07**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2009 ACEL Rates)				
	a. Cargo Truck /Delivery Truck (5T)	1	5.22	6,264.00	32,713.74
	b. Applicator Machine	1	5.22	750.00	3,916.88
	c. Kneading Machine	1	5.22	1,500.00	7,833.75
	Minor Tools (10% of Labor)				1,854.91
	Sub-total for B				**46,319.27**
C.	Total (A + B)				**64,868.34**
D.	Output / day 200.00	sq.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Thermoplastic Paint (White)	339.46	bag	1,585.00	538,048.06
	b. Glass Beads (Pre-Mix)	34.47	bag	2,500.00	86,171.25
	c. Primer	125.34	liter	282.00	35,345.88
	d. LPG (50kg.)	4.18	cyl.	3,900.00	16,294.20
	e. LPG (12kg.)	2.09	cyl.	936.00	1,955.30
	f. Calsumine	130.56	kg.	10.00	1,305.63
	Miscellaneous (5% of Materials)				33,956.02
	Sub-total for E				**713,076.34**
F.	Direct Unit Cost (C + E)				**777,944.68**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		**77,794.47**
H.	Contractors Profit (CP)		8%		**62,235.57**
I.	Value Added Tax (VAT)		5%		**45,898.74**
J.	Total Unit Cost				**922.81**

DETAILED UNIT PRICE ANALYSIS

Name of Project : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : A.1.1(3) Construction of Field Office for the Engineer, (7.00m x 9.00m)
Unit of Measurement : l.s.
Output per Hour : 1.00
Quantity : 1.00

	Description	No. of Persons	No. of Days	Rate/Day	Amount
A.	Labor, (D.O. 40 s2009 & D.O. 12 s2011)				
	a. Construction Foreman	1	24.00	611.92	14,686.08
	c. Skilled	3	24.00	443.20	31,910.40
	d. Laborer	5	24.00	342.24	41,068.80
	Sub-total for A				**87,665.28**
	Name and Capacity	No. of Units	No. of Days	Rate/Day	Amount
B.	Equipment, (2009 Acel Rates)				
	a. Bagger Mixer	1	12.00	1,376.00	16,512.00
	b. Water Truck (16000L)	1	1.00	8,520.00	8,520.00
	Minor Tools (10% of Labor)				8,766.53
	Sub-total for B				**33,798.53**
C.	Total (A + B)				**121,463.81**
D.	Output / day -	Sq.m./day			
	Name and Specification of Materials	No. of Units	Unit	Unit Cost	Amount
E.	Materials				
	I. *Earthworks (Excavation,Embankment,Bedding)*				
	a. Gravel Bedding G-1	5.00	cu.m.	997.00	4,985.00
	b. Selected Fill	6.00	cu.m.	392.00	2,352.00
	c. Soil Poisoning	1.00	lit.	1,183.00	1,183.00
	II. *Concrete Works (Footing,Column,Beams) Slab on Grade)*				
	a. Portland Cement	75.00	bag	271.81	20,385.61
	b. Crushed Gravel G-1"	10.00	cu.m.	997.00	9,970.00
	c. Washed Sand	4.00	cu.m.	890.00	3,560.00
	III. *Reinforcing Bars (Footing Columns,Beams) Slab on Grade)*				
	a. Deformed Round Bar,Grade 40	560.00	kg.	39.00	21,840.00
	b. No. 16 G.I. Tie Wire	12.00	kg.	80.00	960.00
	IV. *Formworks (Columns & Beams)*				
	a. Coco Lumber	240.00	bd.ft.	18.00	4,320.00
	b. Ordinary Plywood, 1/4"x4'x8'	10.00	pc.	395.00	3,950.00
	c. CWN,Assorted	5.00	kg.	80.00	400.00
	V. *Masonry Works (Masonry Wall & Plastering)*				
	a. CHB 6" Thk.	800.00	pc.	25.00	20,000.00
	b. Portland Cement	65.00	bag	271.81	17,667.53
	c. Washed Sand	7.00	cu.m.	890.00	6,230.00
	d. 10mm dia. x6m RSB	145.00	kg.	39.00	5,655.00
	e. No. 16 G.I. Tie Wire	1.53	kg.	80.00	122.40
	VI. *Doors And Window*				
	a. D-1,Hollow Core Flush Type Swing Door w/ Marine Plywood Facing and Fixed Glass Transom complete with accessories, 0.90m.x2.10m.	2.00	set	1,814.40	3,628.80
	b. W-1,Jalousie Window with Clear Glass Blades on Standard Aluminum Casing and Fixed Clear Glass Transom on Wooden Jamb complete with accessories,1.40mx1.20m	2.00	set	1,273.45	2,546.90
	c. W-2,Jalousie Window with Clear Glass Blades onStandard Aluminum Casing and Fixed Clear Glass Transom on Wooden Jamb complete with accessories,2.80mx1.20m	2.00	set	2,546.88	5,093.76

Name and Specification of Materials	No. of Units	Unit	Unit Cost	Amount
VII. *Steel Works*				
a. 65 x 65 x 6mm. L	810.00	kg.	48.00	38,880.00
b. 50 x 50 x 6mm. L	390.00	kg.	48.00	18,720.00
c. 50 x 50 x 4mm. L	230.00	kg.	48.00	11,040.00
d. Purlins C- 150 x 50 x 3mm.	31.79	kg.	48.00	1,525.92
e. 16mm. Dia. Cross Bracing	58.34	kg.	39.00	2,275.26
f. 16mm. Dia. Turn Buckle	24.00	pc.	150.00	3,600.00
g. 12mm. Thk. Base Plate	42.38	kg.	50.00	2,119.00
h. 10mm. Thk. Batten Plate	29.08	kg.	50.00	1,454.00
i. 12mm. Dia. Sag Rod	13.12	kg.	39.00	511.68
j. 20mm. Dia x 350mm. Anchor Bolts	12.00	pc.	99.25	1,190.94
k. Welding Rod	20.00	kg.	135.00	2,700.00
l. Primer , Zinc Cromate	2.00	gal.	791.00	1,582.00
VIII *Roofing Works*				
a. Pre-Painted G.I. Roofing Sheet Long Span, Ga.26	80.00	sq.m.	420.00	33,600.00
b. Pre-Painted Ridge Roll Ga.24, 0.60m. Width	8.00	ln.m.	190.00	1,520.00
c. Pre-Painted Flashing, Ga.24	9.00	ln.m.	190.00	1,710.00
d. Teckscrew 1-1/2"	920.00	pc.	1.00	920.00
e. Roof Sealant	1.00	lit.	435.00	435.00
IX *Carpentry Works*				
a. Rough Lumber, Sun Dried Tanguile	674.00	bd.ft.	42.00	28,308.00
b. Plywood, Ordinary 1/4" x 4"x 8"	30.00	pc.	533.00	15,990.00
c. Finishing Nails	3.00	kg.	100.00	300.00
d. Common Wire Nails	6.00	kg.	80.00	480.00
X *Electrical Works*				
a. 2 x 40w Flourescent Lighting Fixture	5.00	set	1,260.00	6,300.00
b. Porcelain Ceiling Outlet w/ Female Socket	1.00	pc.	60.00	60.00
c. Duplex Convenience Outlet	4.00	pc.	170.00	680.00
d. Two Gang Switch	2.00	pc.	132.00	264.00
e. 3.5mm2 THW	2.00	roll	1,200.00	2,400.00
f. 8.0mm2 THW	20.00	m.	38.00	760.00
g. 19mm. dia. PVC Pipe	24.00	pc.	96.00	2,304.00
h. 19mm. dia. PVC Coupling	15.00	pc.	10.00	150.00
i. 19mm. dia. PVC Elbow	20.00	pc.	10.00	200.00
j. 19mm. dia. PVC Clamp	50.00	pc.	15.00	750.00
k. 25mm. dia. RSC Pipe	3.00	pc.	766.00	2,298.00
l. 25mm. dia. RSC Coupling	2.00	pc.	22.00	44.00
m. 25mm. dia. RSC Elbow	2.00	pc.	22.00	44.00
n. 25mm. dia. RSC Clamp	9.00	pc.	25.00	225.00
o. 25mm. dia. Service Entrance Cap	1.00	pc.	200.00	200.00
p. Wire Holder	1.00	pc.	90.00	90.00
q. Utility Box	6.00	pc.	32.00	192.00
r. Octagonal Box	7.00	pc.	35.00	245.00
s. Electrical Tape (Big)	6.00	pc.	35.00	210.00
t. Panel Board (Side Main w/ Branches)	1.00	set	1,650.00	1,650.00
XI *Painting Works*				
a. Latex, Flat	4.00	gal.	605.00	2,420.00
b. Latex, Semi Gloss	4.00	gal.	605.00	2,420.00
c. Neutralizer	10.00	ltr.	120.00	1,200.00
d. Acri Color	2.00	qrt.	180.00	360.00
e. Masonry Putty	1.00	kg.	147.00	147.00
f. Enamel, Flat Wall	3.00	gal.	870.00	2,610.00
g. Enamel, Semi Gloss	3.00	gal.	870.00	2,610.00
h. Paint Thinner	2.00	gal.	322.00	644.00
i. Glazing Putty	1.00	gal.	150.00	150.00
j. Paint Brush	4.00	pc.	85.00	340.00
k. Paint Roller and Tray	2.00	pc.	75.00	150.00
l. Laquer Thinner	1.00	gal.	450.00	450.00

	Name and Specification of Materials	No. of Units	Unit	Unit Cost	Amount
	XII ***Plumbing Works***				
	a. Water Closet (Including Fittings and Accessories)	1.00	set	8,820.00	8,820.00
	b. Lavatory (Including Fittings and Accessories)	1.00	set	4,390.00	4,390.00
	c. 1/2" G.I. Pipe S-40	2.00	pc.	400.00	800.00
	d. 1/2" Water Faucet (Bronze)	2.00	pc.	315.00	630.00
	e. 1/2" Assorted Connector	6.00	pc.	35.00	210.00
	f. 4" PVC series 1000	1.00	pc.	735.00	735.00
	g. 2" PVC series 1000	2.00	pc.	346.00	692.00
	h. 4" PVC Assorted Connector	6.00	pc.	73.00	438.00
	i. 2" PVC Assorted Connector	8.00	pc.	50.00	400.00
	Sub-total for E				**353,393.80**
F.	Direct Cost (C + E)				**474,857.61**
G.	Overhead Contigencies and Miscellaneous (OCM)		10%		**47,485.76**
H.	Contractor's profit (CP)		8%		**37,988.61**
I.	Value Added Tax (VAT)		5%		**28,016.60**
J.	Total Unit Cost				**588,348.58**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : A.1.1(11) Provision of Furnitures/Fixtures. Equipment and Appliances for the Field Office for the Field Engineers
Unit of Measurement : l.s.
Output per hour : -
Quantity : 1.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	Sub-total for A				
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2009 ACEL Rates)				
	Sub-total for B				
C.	Total (A + B)				
D.	Output / day				
	Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E.	Materials				
	Office Equipment/Facilities & Supplies				
	a. Office Table,Excecutive Type w/ chair	1.00	unit	7,000.00	7,000.00
	b. 1/2" Wooden Ofiice Table	1.00	each	2,500.00	2,500.00
	c. Drawing Table	1.00	unit	4,000.00	4,000.00
	d. Electric Desk Fan	1.00	unit	1,800.00	1,800.00
	e. Folding Beds, Good Quality	1.00	each	2,700.00	2,700.00
	f. 6" Sleeping Bed w/pillows and Blanket	1.00	each	5,000.00	5,000.00
	g. Double Burner Gas Stove (Gasul)	1.00	unit	3,700.00	3,700.00
	h. 10 Cups Rice Cooker	1.00	unit	2,500.00	2,500.00
	i. Aluminum Cookware	1.00	set	3,500.00	3,500.00
	j. Plate, Glass, Spoon and Fork	1.00	doz.	2,000.00	2,000.00
	k. 6 Seater Dining Table	1.00	each	2,800.00	2,800.00
	l. Monoblock Backrest Chair	1.00	doz.	2,500.00	2,500.00
	m. Plastic Pail & Basin	2.00	pc.	500.00	1,000.00
	n. White Board	1.00	unit	7,500.00	7,500.00
	o. Bond Paper (Long)	10.00	ream	350.00	3,500.00
	p. Bond Paper (Short)	10.00	ream	270.00	2,700.00
	q. Yellow Pad	4.00	pad	35.00	140.00
	r. White Board Marker (Assorted colors)	5.00	pc.	75.00	375.00
	s. Sign Pen (Assoreted Colors)	2.00	doz.	800.00	1,600.00
	t. Ball Pen	2.00	box	180.00	360.00
	u. Mechanical Pencil	3.00	unit	350.00	1,050.00
	v. Pencil Lead, No.5	3.00	box	145.00	435.00
	w. Puncher	2.00	unit	250.00	500.00
	x. Staple Padw/wire	2.00	unit	275.00	550.00
	y. Cutter Blade	2.00	box	238.50	477.00
	z. Scotch Tape	6.00	roll	48.00	288.00
	aa. Brown Envelop	6.00	doz.	125.00	750.00
	bb. Folder, long	5.00	doz.	85.00	425.00
	cc. Folder, short	3.00	doz.	70.00	210.00
	dd. Data File Folder	5.00	pc.	85.00	425.00
	Lighting/Water Fixtures:				
	a. Electric Bill	6.00	mo.	2,400.00	14,400.00
	b. Water Bill	6.00	mo.	1,000.00	6,000.00
	c. LPG Gasul (11 Kg.)	6.00	mo.	800.00	4,800.00
	Sub-total for E				**87,485.00**
F.	Direct Unit Cost (C + E)				**87,485.00**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		-
H.	Contractors Profit (CP)		8%		**6,998.80**
I.	Value Added Tax (VAT)		5%		**4,724.19**
J.	Total Unit Cost				**99,207.99**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

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

Unit of Measurement : l.s.

Output per hour :

Quantity : 1.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Service Driver	1	168.00	443.20	74,457.60
	Sub-total for A				**74,457.60**
	Name and Capacity	No. of Equipment	No. of Mos.	Monthly Rate	Amount
B.	Equipment Cost				-
	Sub-total for B				-
C.	Total (A + B)				**74,457.60**
D.	Output / day				
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Fuel (20 Liters per Day)	3,360.00	lit.	41.00	137,760.00
	b. Engine Oil Lubr icants, Greasing (20 % of Fuel)	1.00	l.s.	27,552.00	27,552.00
	c. Tires	5.00	each	9,500.00	47,500.00
	d. Spare Parts	1.00	l.s.	40,000.00	40,000.00
	Sub-total for E				**252,812.00**
F.	Direct Unit Cost (C + E)				**327,269.60**
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		-
H.	Contractors Profit (CP)		8%		-
I.	Value Added Tax (VAT)		5%		**16,363.48**
J.	Total Unit Cost				**343,633.08**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : B.4(1) Construction Survey and Staking

Unit of Measurement : km

Output per hour : 0.04

Quantity : 5.22

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
(For Field Works) Output: 0.30 km/day				
a. Geodetic Engineer	1	8.71	906.36	7,889.86
b. Skilled Laborer	2	8.71	443.20	7,716.11
c. Laborer	2	8.71	342.24	5,958.40
(For Office Works) Output: 0.10 km/day				
a. Geodetic Engineer	1	26.12	906.36	23,669.59
b. Skilled Laborer	2	26.12	443.20	23,148.34
Sub-total for A				**68,382.30**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
a. Total Station w/ complete accessories	1	8.71	850.00	7,399.25
Sub-total for B				**7,399.25**
C. Total (A + B)				**75,781.55**
D. Output / day 0.32	km/day			
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Standard Stake Plan (800mm x 910mm)	80.00	pcs	250.00	20,000.00
b. Blue Printing	450.00	pcs	35.00	15,750.00
Miscellaneous (5% of Materials)				1,787.50
Sub-total for E				**37,537.50**
F. Direct Unit Cost (C + E)				**113,319.05**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		**11,331.91**
H. Contractors Profit (CP)		8%		**9,065.52**
I. Value Added Tax (VAT)		5%		**6,685.82**
J. Total Unit Cost				**26,881.54**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN)
Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : B.5 Project Billboard/Signboard
Unit of Measurement : unit
Output per hour :
Quantity : 2.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	2.0	611.92	1,223.84
b. Carpenter	1	2.0	443.20	886.40
c. Laborer	2	2.0	342.24	1,368.96
Sub-total for A				**3,479.20**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2009 ACEL Rates)				
Sub-total for B				-
C. Total (A + B)				**3,479.20**
D. Output / day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. 1/4" thk. 4' x 8' Marine Plywood	2.00	pc.	445.00	890.00
b. Tarpaulin (4' x 8')	2.00	pc.	1,200.00	2,400.00
c. Assorted Sizes Lumber	150.00	bd.ft.	40.00	6,000.00
d. C.W. Nails, Assorted Sizes	2.00	kg.	70.00	140.00
Sub-total for E				**9,430.00**
F. Direct Unit Cost (C + E)				**12,909.20**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		**1,290.92**
H. Contractors Profit (CP)		8%		**1,032.74**
I. Value Added Tax (VAT)		5%		**761.64**
J. Total Unit Cost				**7,997.25**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN) Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206
Item No./Description	:	B.7 Occupational Safety and Health Program
Unit of Measurement	:	l.s.
Output per hour	:	
Quantity	:	1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Safety Practitioner	1	42.00	611.92	25,700.64
b. First Aider	1	168.00	443.20	74,457.60
Sub-total for A				**100,158.24**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2009 ACEL Rates)				
Sub-total for B				-
C. Total (A + B)				**100,158.24**
D. Output / day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Pairs, Rubber Boots Men, Long with Steel Toe, Black	40.00	pair	400.00	16,000.00
b. Pairs, Working Gloves (Leather Materials)	40.00	pair	150.00	6,000.00
c. Pcs., Rain Coats (Rainforced, Hip Length Small, Medium & Large)	40.00	pc.	150.00	6,000.00
d. Hard Hat	40.00	pc.	250.00	10,000.00
e. Medical Supplies	1.00	set	3,500.00	3,500.00
Sub-total for E				**41,500.00**
F. Direct Unit Cost (C + E)				**141,658.24**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		**14,165.82**
H. Contractors Profit (CP)		8%		**11,332.66**
I. Value Added Tax (VAT)		5%		**8,357.84**
J. Total Unit Cost				**175,514.56**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Road Widening Including Drainage - Ipil-Liloy-Sindangan Road (S0113MN) Zamboanga Sibugay 2nd DEO - K1999+866 - K2002+400; K2008+517 - K2011+206

Item No./Description : B.9 Mobilization & Demobilization

Unit of Measurement : l.s.

Output per hour :

Quantity : 1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				-
Sub-total for A				-
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2009 ACEL Rates)				
a. Transit Mixer (5 cu.m.)	2	6.00	10,544.00	126,528.00
b. Payloader (1.50 cu.m.), LX80-2C	2	6.00	13,864.00	166,368.00
c. Dump Truck (10 cu.m.)	2	6.00	11,360.00	136,320.00
d. Bulldozer (155 HP), D65A-8	2	6.00	27,032.00	324,384.00
e. Concrete Paver, GP-2000 Slipform			-	-
f. Motorized Road Grader, G710A			-	-
g. Vibratory Roller (10 m.t.), SP56			-	-
h. Water Truck	2	6.00	19,600.00	235,200.00
i. Cargo Truck (10T)	2	6.00	6,264.00	75,168.00
j. Conc. Mixer (1 bagger)	2	6.00	1,376.00	16,512.00
Sub-total for B				**1,080,480.00**
C. Total (A + B)				**1,080,480.00**
D. Output / day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				-
Sub-total for E				-
F. Direct Unit Cost (C + E)				**1,080,480.00**
G. Overhead Contingencies & Miscellaneous (OCM)		10%		-
H. Contractors Profit (CP)		8%		-
I. Value Added Tax (VAT)		5%		**54,024.00**
J. Total Unit Cost				**1,134,504.00**