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 : **Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)**	Appropriation	:	P 210,000,000.00
	Source of Funds	:	CY 2018 Regular Infra Project
	Issued Obligated Authority	:	
	Released	:	
PROJECT CATEGORY : NATIONAL ROAD	Cal. Days to Complete	:	612 Calendar Days
	Desirable Starting Date	:	Upon Approval
	Mode of Implementation	:	By Contract

PROJECT DESCRIPTION :

- Scope of Work : Construction of Flood Mitigation Structure including cleaning of existing drainage structure
- Drainage Structure : 2 - 1.5m x 1.5m R.C.B.C
- Deck Slab Thickness : 0.20 meters
- Roadway Thickness : 0.28 meters PCCP (Unreinforced)
- Work Limit : 5.20 meters (from road centerline)

STATION LIMITS :

Jct. Alfaro St. - Roberto Villares St. To Jct. Veterans Ave.	1,340.00 Ln.M.
Jct. Martha Drive - Evangelista St. To Jct. Veterans Ave.	210.00 Ln.M.
Jct. Martha Drive - Evangelista St. To Kasanyangan Rd (Outfall)	1,100.00 Ln.M.
TOTAL	**2,650.00 Ln.M.**

MINIMUM EQUIPMENT REQUIREMENT :

Description	No.	Description	No.
Batching Plant (30 cu.m.)	1	Concrete Saw, Blade Ø 14" (7.5 Hp)	1
Transit Mixer (5 cu.m.)	2	Bar Cutter, Single Phase	4
Payloader (1.50 cu.m.)	2	Bar Bender	4
Backhoe (0.80 cu.m.)	2	Concrete Vibrator	4
Backhoe with Breaker (0.80 cu.m.)	2	Truck Mounted Crane	2
Dumptruck (10 cu.m.)	2	Plate Compactor	2
Water Truck	2	Motorized Road Grader, G710A	2
Cargo Truck (10T, 270 Hp)	2	Vibratory Roller (10 m.t.), SP56	1
Concrete Screeder (5.5 Hp)	2	Jackhammer	1
One Bagger Mixer	2	Air Compressor (356-450 cfm)	1

TECHNICAL PERSONNEL REQUIRED :

Description	No.
Project Engineer	1
Materials Engineer	1
Materials Lab. Tech.	1
Surveyor	1
Safety Practitioner	1
Foreman	2
Carpenter	8
Mason	10
Laborer	20

ESTIMATED COST OF PROPOSED WORK

ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST TOTAL	DIRECT COST UNIT COST
PART A - FACILITIES FOR THE ENGINEER						
A.1.1(3)	Construction of Field Office for the Engineer, (7.00m x 9.00m)	0.285	l.s.	1.00	474,953.07	474,953.07
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the Field Office for the Field Engineers	0.089	l.s.	1.00	148,445.00	148,445.00
PART B - OTHER GENERAL REQUIREMENTS						
B.4(1)	Construction Survey and Staking	0.048	km	2.65	79,148.50	29,867.36
B.5	Project Billboard/Signboard	0.095	each	4.00	157,888.40	39,472.10
B.7	Occupational Safety and Health Program	0.216	l.s.	1.00	360,049.76	360,049.76
B.8(2)	Traffic Management	1.374	l.s.	1.00	2,288,521.60	2,288,521.60
B.9	Mobilization & Demobilization	0.614	l.s.	1.00	1,022,236.80	1,022,236.80
PART C - EARTHWORKS						
101(1)	Removal of Structures and Obstructions	3.707	l.s.	1.00	6,173,061.74	6,173,061.74
101(3)b5	Removal of Structures and Obstruction, (0.28m PCCP Unreinforced)	0.835	sq.m.	12,455.00	1,391,103.17	111.69
101(3)c2	Removal of Structures and Obstruction, (ACP, 0.10m thk.)	0.703	sq.m.	12,455.00	1,170,255.48	93.96
101(5)a4	Removal of Pipes other than Pipe Culverts, 150mm dia. PVC	0.673	Ln.m.	5,300.00	1,121,322.21	211.57
103(1)a	Structure Excavation	2.754	cu.m.	19,875.00	4,586,217.86	230.75
105(1)a	Subgrade Preparation	0.028	sq.m.	2,915.00	46,666.85	16.01

ESTIMATED COST OF PROPOSED WORK						
ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PART D - SUBBASE AND BASE COURSE						
200(1)	Aggregate Subbase Course, 0.30m. Thick	0.861	cu.m.	1,033.50	1,433,915.96	1,387.44
PART E - SURFACE COURSE						
311(1)e1	Portland Cement Concrete Pavement (Unreinforced) 0.28 mm. thick	3.007	sq.m.	2,915.00	5,007,769.62	1,717.93
PART F - BRIDGE CONSTRUCTION						
404(1)a	Reinforcing Steel Bar, (Grade 40)	9.975	Kgs.	315,094.88	16,610,382.80	52.72
404(1)b	Reinforcing Steel Bar, (Grade 60)	32.692	Kgs.	942,610.54	54,438,076.06	57.75
405(1)b2	Structural Concrete, 27.58 Mpa	34.966	cu.m.	6,776.58	58,223,765.10	8,591.91
407(8)	Lean Concrete	1.749	cu.m.	490.25	2,911,963.66	5,939.75
414(1)	Forms and Falseworks	0.373	l.s	1.00	621,537.55	621,537.55
PART G - DRAINAGE & SLOPE PROTECTION STRUCTURES						
500(1)b1	Pipe Culverts, 610mm. dia. - Class IV	0.500	ln.m.	220.00	833,116.02	3,786.89
504(5)	Cleaning/Reconditioning of Drainage Structures	2.589	l.s	1.00	4,311,206.91	4,311,206.91
PART H - MISCELLANEOUS STRUCTURES						
600(4)	Curb and Gutter, Cast-in-Place	1.558	ln.m.	2,650.00	2,594,462.38	979.04
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	0.119	sq.m.	265.00	197,665.36	745.91
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	0.187	sq.m.	397.50	312,106.14	785.17
TOTAL		100.000			**P 166,515,838.01**	

NAME OF PROJECT :	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)			
STATION LIMITS:	Jct. Alfaro St. - Roberto Villares St.	To Jct. Veterans Ave.	1,340.00	Ln.M.
	Jct. Martha Drive - Evangelista St.	To Jct. Veterans Ave.	210.00	Ln.M.
	Jct. Martha Drive - Evangelista St.	To Kasanyangan Rd (Outfall)	1,100.00	Ln.M.
		TOTAL	**2,650.00**	**Ln.M.**

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL		AMOUNT
I. ESTIMATED COST			
A. DIRECT COST			
A.1. Materials	56.75		119,168,300.13
A.2. Labor	7.66		16,087,598.55
A.3. Equipment Expenses	14.89		31,259,939.33
SUB-TOTAL (DIRECT COST)	79.29	P	166,515,838.01
B. INDIRECT COST (Per D.O. # 197 s.2016)			
B.1. Overhead, Contingency & Misc. (8% Max. of D.C.)	6.20		13,015,726.79
B.2. Profit (8 % Max. of D.C.)	6.30		13,239,488.10
C. VAT (5% of D.C. and I.C.)	4.59		9,638,552.64
SUBTOTAL (CONTRACT COST)	96.39	P	202,409,605.54
II. ESTIMATED GOVERNMENT EXPENDITURES			
1. Engineering and Administrative Overhead (3.50%)	3.50		7,350,000.00
2. Detailed Engineering (1%)			
3. Reserved for the Payment of RROW	0.00		-
4. Physical Reserved	0.11		240,394.46
TOTAL ESTIMATED PROJECT COST	100.00	P	210,000,000.00

Prepared:

JERIC VINCENT T. RUIZ
Engineer II

Checked:

JERALD R. BARRERA
Engineer II

Submitted:

LEONCIO B. SOLAMILLO
Chief, Construction Division

Recommending Approval:

KHADAFFY D. TANGGOL
OIC - Assistant Regional Director

Approved:

CAYAMOMBAO D. DIA
OIC - Regional Director

Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

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	353,489.26	474,953.07
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the Field Office	-	-	148,445.00	148,445.00
PART B - OTHER GENERAL REQUIREMENTS					
B.4(1)	Construction Survey and Staking	7,305.17	37,718.33	34,125.00	79,148.50
B.5	Project Billboard/Signboard	-	6,958.40	150,930.00	157,888.40
B.7	Occupational Safety and Health Program	-	257,549.76	102,500.00	360,049.76
B.9	Mobilization & Demobilization	1,022,236.80	-	-	1,022,236.80
PART C - EARTHWORKS					
101(1)	Removal of Structures and Obstructions	5,628,536.96	514,524.78	30,000.00	6,173,061.74
101(3)b5	Removal of Structures and Obstruction, (0.28m PCCP Unreinforced)	1,324,199.20	66,903.96	-	1,391,103.17
101(5)a4	Removal of Pipes other than Pipe Culverts, 150mm dia. PVC	730,711.11	390,611.10	-	1,121,322.21
101(3)c2	Removal of Structures and Obstruction, (ACP, 0.10m thk.)	1,078,461.87	91,793.61	-	1,170,255.48
103(1)a	Structure Excavation	4,371,150.49	215,067.38	-	4,586,217.86
105(1)a	Subgrade Preparation	45,002.74	1,664.11	-	46,666.85
PART D - SUBBASE AND BASE COURSE					
200(1)	Aggregate Subbase Course, 0.30m. Thick	191,466.21	5,406.78	1,237,042.97	1,433,915.96
PART E - SURFACE COURSE					
311(1)e1	Portland Cement Concrete Pavement (Unreinforced) 0.28 mm. thick	610,348.69	43,459.42	4,353,961.52	5,007,769.62
PART F - BRIDGE CONSTRUCTION					
404(1)a	Reinforcing Steel Bar, (Grade 40)	1,675,867.15	979,277.70	13,955,237.96	16,610,382.80
404(1)b	Reinforcing Steel Bar, (Grade 60)	6,117,149.63	2,611,582.68	45,709,343.76	54,438,076.06
405(1)b2	Structural Concrete, 27.58 Mpa	4,279,564.68	7,369,230.60	46,574,969.82	58,223,765.10
407(8)	Lean Concrete	189,825.43	236,943.52	2,485,194.71	2,911,963.66
414(1)	Forms and Falseworks	29,230.69	292,306.86	300,000.00	621,537.55
PART G - DRAINAGE & SLOPE PROTECTION STRUCTURES					
500(1)b1	Pipe Culverts, 610mm. dia. - Class IV	84,010.72	36,667.24	712,438.06	833,116.02
504(5)	Cleaning/Reconditioning of Drainage Structures	3,693,978.81	617,228.10	-	4,311,206.91
PART H - MISCELLANEOUS STRUCTURES					
600(4)	Curb and Gutter, Cast-in-Place	116,654.96	174,086.03	2,303,721.40	2,594,462.38
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	11,778.30	4,972.53	180,914.53	197,665.36
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	18,661.20	7,458.79	285,986.15	312,106.14
	TOTAL	**31,259,939.33**	**16,087,598.55**	**119,168,300.13**	**166,515,838.01**

APPROVED BUDGET FOR THE CONTRACT

Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Contract Duration : 612.00 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.	474,953.07	8.00	8.00	16.00	75,992.49	27,547.28	103,539.77	578,492.84	578,492.84
A.1.1(11)	Provision of Furnitures/Fixtures. Equipment and Appliances for the Field Office for the Field Engineers	1.00	l.s.	148,445.00	0.00	8.00	8.00	11,875.60	8,016.03	19,891.63	168,336.63	168,336.63
PART B - OTHER GENERAL REQUIREMENTS												
B.4(1)	Construction Survey and Staking	2.65	km	79,148.50	8.00	8.00	16.00	12,663.76	4,590.61	17,254.37	96,402.87	36,378.44
B.5	Project Billboard/Signboard	4.00	each	157,888.40	8.00	8.00	16.00	25,262.14	9,157.53	34,419.67	192,308.07	48,077.02
B.7	Occupational Safety and Health Program	1.00	l.s.	360,049.76	0.00	8.00	8.00	28,803.98	19,442.69	48,246.67	408,296.43	408,296.43
B.9	Mobilization & Demobilization	1.00	l.s.	1,022,236.80	0.00	0.00	0.00	-	51,111.84	51,111.84	1,073,348.64	1,073,348.64
PART C - EARTHWORKS												
101(1)	Removal of Structures and Obstructions	1.00	l.s.	6,173,061.74	8.00	8.00	16.00	987,689.88	358,037.58	1,345,727.46	7,518,789.20	7,518,789.20
101(3)b5	Removal of Structures and Obstruction, (0.28m PCCP Unreinforced)	12,455.00	sq.m.	1,391,103.17	8.00	8.00	16.00	222,576.51	80,683.98	303,260.49	1,694,363.66	136.04
101(3)c2	Removal of Structures and Obstruction, (ACP, 0.10m thk.)	12,455.00	sq.m.	1,170,255.48	8.00	8.00	16.00	187,240.88	67,874.82	255,115.69	1,425,371.17	114.44
101(5)a4	Removal of Pipes other than Pipe Culverts, 150mm dia. PVC	5,300.00	Ln.m.	1,121,322.21	8.00	8.00	16.00	179,411.55	65,036.69	244,448.24	1,365,770.46	257.69
103(1)a	Structure Excavation	19,875.00	cu.m.	4,586,217.86	8.00	8.00	16.00	733,794.86	266,000.64	999,795.49	5,586,013.36	281.06
105(1)a	Subgrade Preparation	2,915.00	cu.m.	46,666.85	8.00	8.00	16.00	7,466.70	2,706.68	10,173.37	56,840.23	19.50
PART D - SUBBASE AND BASE COURSE												
200(1)	Aggregate Subbase Course, 0.30m. Thick	1,033.50	cu.m.	1,433,915.96	8.00	8.00	16.00	229,426.55	83,167.13	312,593.68	1,746,509.64	1,689.90
PART E - SURFACE COURSE												
311(1)e1	Portland Cement Concrete Pavement (Unreinforced) 0.28 mm. thick	2,915.00	sq.m.	5,007,769.62	8.00	8.00	16.00	801,243.14	290,450.64	1,091,693.78	6,099,463.40	2,092.44

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)
PART F - BRIDGE CONSTRUCTION												
404(1)a	Reinforcing Steel Bar, (Grade 40)	315,094.88	Kgs.	16,610,382.80	8.00	8.00	16.00	2,657,661.25	963,402.20	3,621,063.45	20,231,446.26	64.21
404(1)b	Reinforcing Steel Bar, (Grade 60)	942,610.54	Kgs.	54,438,076.06	8.00	8.00	16.00	8,710,092.17	3,157,408.41	11,867,500.58	66,305,576.64	70.34
405(1)b2	Structural Concrete, 27.58 Mpa	6,776.58	cu.m.	58,223,765.10	8.00	8.00	16.00	9,315,802.42	3,376,978.38	12,692,780.79	70,916,545.89	10,464.95
407(8)	Lean Concrete	490.25	cu.m.	2,911,963.66	8.00	8.00	16.00	465,914.19	168,893.89	634,808.08	3,546,771.74	7,234.62
414(1)	Forms and Falseworks	1.00	l.s	621,537.55	8.00	8.00	16.00	99,446.01	36,049.18	135,495.19	757,032.73	757,032.73
PART G - DRAINAGE & SLOPE PROTECTION STRUCTURES												
500(1)b1	Pipe Culverts, 610mm. dia. - Class IV	220.00	ln.m.	833,116.02	8.00	8.00	16.00	133,298.56	48,320.73	181,619.29	1,014,735.31	4,612.43
504(5)	Cleaning/Reconditioning of Drainage Structures	1.00	l.s	4,311,206.91	8.00	8.00	16.00	689,793.11	250,050.00	939,843.11	5,251,050.02	5,251,050.02
PART H - MISCELLANEOUS STRUCTURES												
600(4)	Curb and Gutter, Cast-in-Place	2,650.00	ln.m.	2,594,462.38	8.00	8.00	16.00	415,113.98	150,478.82	565,592.80	3,160,055.18	1,192.47
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	265.00	sq.m.	197,665.36	8.00	8.00	16.00	31,626.46	11,464.59	43,091.05	240,756.41	908.51
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	397.50	sq.m.	312,106.14	8.00	8.00	16.00	49,936.98	18,102.16	68,039.14	380,145.28	956.34
	T O T A L			**166,515,838.01**					**9,638,552.64**		**202,409,605.54**	

Submitted :

ISIDRA A. ESTANISLAO
Head, BAC-TWG

Recommending Approval :

KHADAFFY D. TANGGOL
OIC - Assistant Regional Director

Approved :

CAYAMOMBAO D. DIA
OIC - Regional Director

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	101(1) Removal of Structures and Obstructions
Unit of Measurement	:	l.s.
Output per hour	:	-
Quantity	:	1.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	66.00	647.61	42,742.26
	b. Skilled Laborer	6	66.00	468.87	185,672.52
	c. Laborer	12	66.00	361.25	286,110.00
	Sub-total for A				**514,524.78**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 m^3)	2	52.80	15,984.80	1,687,994.88
	b. Jackhammer	2	66.00	1,200.00	158,400.00
	c. Air Compressor (356-450 cfm)	2	66.00	7,720.00	1,019,040.00
	d. Dump Truck (12 yd^3)	2	52.80	11,360.00	1,199,616.00
	e. Payloader (1.50 m^3)	2	52.80	13,864.00	1,464,038.40
	f. Cutting Outfit	2	66.00	363.60	47,995.20
	Minor Tools (10% of Labor)				51,452.48
	Sub-total for B				**5,628,536.96**
C.	Total (A + B)				**6,143,061.74**
D.	Output / day -	ln.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Oxy/Acetylene	12.00	set	2,500.00	30,000.00
	Sub-total for E				**30,000.00**
F.	Direct Unit Cost (C + E)				**6,173,061.74**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**493,844.94**
H.	Contractors Profit (CP)		8%		**493,844.94**
I.	Value Added Tax (VAT)		5%		**358,037.58**
J.	Total Unit Cost				**7,518,789.20**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	101(3)b5 Removal of Structures and Obstruction, *(0.28m PCCP Unreinforced)*
Unit of Measurement	:	sq.m.
Output per hour	:	48.70 sq.m./hr.
Quantity	:	12,455.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	31.97	647.61	20,705.09
	b. Laborer	4	31.97	361.25	46,198.88
	Sub-total for A				**66,903.96**
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 m^3)	1	31.97	15,984.80	511,058.68
	b. Payloader (1.50 m^3)	1	31.97	13,864.00	443,253.43
	c. Dump Truck (12 yd^3)	1	31.97	11,360.00	363,196.70
	Minor Tools (10% of Labor)				6,690.40
	Sub-total for B				**1,324,199.20**
C.	Total (A + B)				**1,391,103.17**
D.	Output / day 389.57 l.m./day				
	Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**1,391,103.17**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**111,288.25**
H.	Contractors Profit (CP)		8%		**111,288.25**
I.	Value Added Tax (VAT)		5%		**80,683.98**
J.	Total Unit Cost				**136.04**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : 101(3)c2 Removal of Structures and Obstruction, *(ACP, 0.10m thk.)*
Unit of Measurement : sq.m.
Output per hour : 60.00 sq.m./hr.
Quantity : 12,455.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	25.95	647.61	16,804.13
	b. Laborer	8	25.95	361.25	74,989.48
	Sub-total for A				**91,793.61**
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2014 ACEL Rates)				
	a. Backhoe w/ Breaker (0.80 m^3)	1	25.95	15,984.80	414,772.26
	b. Payloader (1.50 m^3)	1	25.95	13,864.00	359,741.92
	c. Dump Truck (12 yd^3)	1	25.95	11,360.00	294,768.33
	Minor Tools (10% of Labor)				9,179.36
	Sub-total for B				**1,078,461.87**
C.	Total (A + B)				**1,170,255.48**
D.	Output / day	480.00	l.m./day		
	Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**1,170,255.48**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**93,620.44**
H.	Contractors Profit (CP)		8%		**93,620.44**
I.	Value Added Tax (VAT)		5%		**67,874.82**
J.	Total Unit Cost				**114.44**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : 101(5)a4 Removal of Pipes other than Pipe Culverts, *150mm dia. PVC*
Unit of Measurement : Ln.m.
Output per hour : 6.00 Ln.m./hr.
Quantity : 5,300.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	110.42	647.61	71,506.94
	b. Laborer	8	110.42	361.25	319,104.17
	Sub-total for A				**390,611.10**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	b Cargo Truck (2-5 mt)	1	110.42	6,264.00	691,650.00
	Minor Tools (10% of Labor)				39,061.11
	Sub-total for B				**730,711.11**
C.	Total (A + B)				**1,121,322.21**
D.	Output / day 48.00	cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**1,121,322.21**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**89,705.78**
H.	Contractors Profit (CP)		8%		**89,705.78**
I.	Value Added Tax (VAT)		5%		**65,036.69**
J.	Total Unit Cost				**257.69**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	103(1)a Structure Excavation
Unit of Measurement	:	cu.m.
Output per hour	:	20.00 cu.m./hr.
Quantity	:	19,875.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	124.22	647.61	80,445.30
	b. Laborer	3	124.22	361.25	134,622.07
	Sub-total for A				**215,067.38**
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2014 ACEL Rates)				
	a. Dumptruck (10 cu.m.)	2	124.22	11,360.00	2,822,250.00
	b. Backhoe (0.80 cu.m.)	1	124.22	12,296.00	1,527,393.75
	Minor Tools (10% of Labor)				21,506.74
	Sub-total for B				**4,371,150.49**
C.	Total (A + B)				**4,586,217.86**
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)				**4,586,217.86**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**366,897.43**
H.	Contractors Profit (CP)		8%		**366,897.43**
I.	Value Added Tax (VAT)		5%		**266,000.64**
J.	Total Unit Cost				**281.06**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	105(1)a Subgrade Preparation
Unit of Measurement	:	sq.m.
Output per hour	:	300.00 sq.m./hr.
Quantity	:	2,915.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.21	647.61	786.58
	b. Laborer	2	1.21	361.25	877.54
	Sub-total for A				1,664.11
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2014 ACEL Rates)				
	a. Motorized Road Grader, G710A	1	1.21	17,384.00	21,114.32
	b. Vibratory Roller (10 m.t.), SP56	1	1.21	14,768.00	17,936.97
	c. Water Truck	1	0.30	19,600.00	5,951.46
	Sub-total for B				45,002.74
C.	Total (A + B)				46,666.85
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)				46,666.85
G.	Overhead Contingencies & Miscellaneous (OCM)		10%		4,666.69
H.	Contractors Profit (CP)		8%		3,733.35
I.	Value Added Tax (VAT)		5%		2,753.34
J.	Total Unit Cost				19.84

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : 200(1) Aggregate Subbase Course, 0.30m. Thick
Unit of Measurement : cu.m.
Output per hour : 50.00 cu.m./hr.
Quantity : 1,033.50

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	2.58	647.61	1,673.26
	b. Laborer	4	2.58	361.25	3,733.52
	Sub-total for A				**5,406.78**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Motorized Road Grader, G710A	2	2.58	17,384.00	89,831.82
	b. Vibratory Roller (10 m.t.), SP56	2	2.58	14,768.00	76,313.64
	c. Water Truck	2	0.65	19,600.00	25,320.75
	Sub-total for B				**191,466.21**
C.	Total (A + B)				**196,872.99**
D.	Output / day	400.00	cu.m./day		
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Aggregate Subbase Course (with shrinkage of 15%)	1,188.53	cu.m.	1,040.82	1,237,042.97
	Sub-total for E				**1,237,042.97**
F.	Direct Unit Cost (C + E)				**1,433,915.96**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**114,713.28**
H.	Contractors Profit (CP)		8%		**114,713.28**
I.	Value Added Tax (VAT)		5%		**83,167.13**
J.	Total Unit Cost				**1,689.90**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	311(1)e1 Portland Cement Concrete Pavement (Unreinforced) 0.28 mm. thick
Unit of Measurement	:	sq.m.
Output per hour	:	57.50 sq.m./hr.
Quantity	:	2,915.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	6.34	647.61	4,103.88
	b. Skilled Laborer	4	6.34	468.87	11,884.84
	c. Laborer	12	6.34	361.25	27,470.71
	Sub-total for A				**43,459.42**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Transit Mixer (5 cu.m.)	4	6.34	10,544.00	267,267.48
	b. Concrete Vibrator	2	6.34	730.00	9,251.96
	c. Concrete Batch Plant (30 m^3)	1	6.34	14,076.00	89,199.00
	d. Payloader (1.50 m^3), LX80-2c	1	6.34	13,864.00	87,855.57
	e. Concrete Screeder (5.5 hp)	1	6.34	4,360.00	27,629.13
	f. Water Truck/Pump (16000 L)	1	6.34	19,600.00	124,204.35
	g. Concrete Saw (7.5 hp), 14 " Blade dia.	1	6.34	261.04	1,654.20
	h. Bar Cutter, Single Phase	1	0.63	1,758.00	1,114.04
	Minor Tools (5% of Labor Cost)				2,172.97
	Sub-total for B				**610,348.69**
C.	Total (A + B)				**653,808.10**
D.	Output / day	460.00 cu.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Reinforcing Steel Bars (Grade 60)	1,457.50	kg.	44.34	64,630.09
	b. Curing Compound	845.35	lit.	45.00	38,040.75
	c. Asphalt Sealant	495.55	lit.	71.00	35,184.05
	d. Steel Forms (Rental)	1,340.90	l.m.	50.00	67,045.00
	e. Sand	448.91	cu.m.	1,660.82	745,559.60
	f. Gravel	816.20	cu.m.	1,460.82	1,192,322.92
	g. Cement	7,753.90	bags	283.11	2,195,198.49
	h. Concrete Saw (diamond blade 14")	0.44	pcs.	8,000.00	3,498.00
	i. Pipe Sleeve, 2" Ø	22.74	ln.m.	346.00	7,867.00
	j. Grease/Tar	22.74	lit.	203.00	4,615.61
	Sub-total for E				**4,353,961.52**
F.	Direct Unit Cost (C + E)				**5,007,769.62**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**400,621.57**
H.	Contractors Profit (CP)		8%		**400,621.57**
I.	Value Added Tax (VAT)		5%		**290,450.64**
J.	Total Unit Cost				**2,092.44**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : 404(1)a Reinforcing Steel Bar, (Grade 40)
Unit of Measurement : Kgs.
Output per hour : 180.00 Kg./hr.
Quantity : 315,094.88

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	218.82	647.61	141,707.36
b. Skilled Laborer	2	218.82	468.87	205,192.41
c. Laborer	8	218.82	361.25	632,377.92
Sub-total for A				**979,277.70**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (31-35 MT)	1	43.76	14,888.00	651,546.20
b. Cargo Truck (10T, 270 Hp)	1	43.76	9,696.00	424,327.78
c. Bar Cutter	1	131.29	1,758.00	230,807.00
d. Bar Bender	1	131.29	2,812.00	369,186.17
Sub-total for B				**1,675,867.15**
C. Total (A + B)				**2,655,144.84**
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)	330,849.63	kg.	40.34	13,346,473.96
b. Tie Wire (2% of RSB)	6,617.00	kg.	92.00	608,764.00
Sub-total for E				**13,955,237.96**
F. Direct Unit Cost (C + E)				**16,610,382.80**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		**1,328,830.62**
H. Contractors Profit (CP)		8%		**1,328,830.62**
I. Value Added Tax (VAT)		5%		**963,402.20**
J. Total Unit Cost				**64.21**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : 404(1)b Reinforcing Steel Bar, (Grade 60)
Unit of Measurement : Kgs.
Output per hour : 720.00 Kg./hr.
Quantity : 942,610.54

Note: Use four (4) gang of labor and equipment

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	163.65	647.61	105,979.86
b. Skilled Laborer	8	163.65	468.87	613,835.84
c. Laborer	32	163.65	361.25	1,891,766.98
Sub-total for A				**2,611,582.68**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
a. Truck Mounted Crane (31-35 MT)	4	40.91	14,888.00	2,436,386.40
b. Cargo Truck (10T, 270 Hp)	4	40.91	9,696.00	1,586,727.74
c. Bar Cutter	4	114.55	1,758.00	805,539.25
d. Bar Bender	4	114.55	2,812.00	1,288,496.24
Sub-total for B				**6,117,149.63**
C. Total (A + B)				**8,728,732.30**
D. Output / day 5,760.00 Kg./day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Reinforcing Steel Bars, Grade 40 (w/ 5% wastage)	989,741.06	kg.	44.34	43,888,203.76
b. Tie Wire (2% of RSB)	19,795.00	kg.	92.00	1,821,140.00
Sub-total for E				**45,709,343.76**
F. Direct Unit Cost (C + E)				**54,438,076.06**
G. Overhead Contingencies & Miscellaneous (OCM)			8%	**4,355,046.08**
H. Contractors Profit (CP)			8%	**4,355,046.08**
I. Value Added Tax (VAT)			5%	**3,157,408.41**
J. Total Unit Cost				**70.34**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	405(1)b2 Structural Concrete, 27.58 Mpa
Unit of Measurement	:	cu.m.
Output per hour	:	10.00 cu.m./hr.
Quantity	:	6,776.58

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	84.71	647.61	54,857.26
b. Skilled Laborer	4	84.71	468.87	158,866.75
c. Laborer	8	84.71	361.25	244,803.95
Installation & Removal of Formworks/Falseworks: *(6 gang)*				
a. Construction Foreman	1	282.36	647.61	182,857.54
a. Skilled Laborer	20	282.36	468.87	2,647,779.22
b. Laborer	40	282.36	361.25	4,080,065.88
Sub-total for A				**7,369,230.60**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
a. Transit Mixer (5 m^3)	2	84.71	10,544.00	1,786,306.49
b. Concrete Vibrator	2	84.71	730.00	123,672.59
c. Batching Plant (30 m^3)	1	50.82	14,076.00	715,403.55
d. Payloader (1.50 m^3)	1	50.82	13,864.00	704,628.79
e. Water Truck/Pump (16000L)	1	29.65	19,600.00	581,091.74
Minor Tools (5% of Labor)				368,461.53
Sub-total for B				**4,279,564.68**
C. Total (A + B)				**11,648,795.28**
D. Output / day	80.00 cu.m./day			
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Good Lumber - 4 uses	169,414.50	bd.ft.	38.00	6,437,751.00
b. Marine Plywood (1/2" x 4' x 8') - 4 uses	2,541.22	pcs.	1,100.00	2,795,339.25
c. Assorted CW Nails	6,776.58	kg.	70.00	474,360.60
d. Portland Cement	74,542.38	bag	283.11	21,103,614.95
e. Sand	3,388.29	cu.m.	1,660.82	5,627,346.57
f. Gravel	6,776.58	cu.m.	1,460.82	9,899,377.15
f. Curing Compund	6,776.58	L	35.00	237,180.30
Sub-total for E				**46,574,969.82**
F. Direct Unit Cost (C + E)				**58,223,765.10**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		**4,657,901.21**
H. Contractors Profit (CP)		8%		**4,657,901.21**
I. Value Added Tax (VAT)		5%		**3,376,978.38**
J. Total Unit Cost				**10,464.95**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	407(8) Lean Concrete
Unit of Measurement	:	cu.m.
Output per hour	:	1.40 cu.m./hr.
Quantity	:	490.25

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	43.77	647.61	28,347.39
b. Skilled Laborer	4	43.77	468.87	82,094.11
c. Laborer	8	43.77	361.25	126,502.01
Sub-total for A				236,943.52
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
a. One Bagger Mixer	1	43.77	1,376.00	60,230.71
b. Concrete Vibrator	1	43.77	730.00	31,953.79
c. Water Truck	1	4.38	19,600.00	85,793.75
Minor Tools (5% of Labor)				11,847.18
Sub-total for B				189,825.43
C. Total (A + B)				426,768.95
D. Output / day	11.20 cu.m./day			
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Form Lumber	40.45	bd.ft.	38.00	1,536.93
b. Marine Plywood (1/2" x 4' x 8')	196.10	pcs.	1,100.00	215,710.00
c. Assorted CW Nails	490.25	kg.	70.00	34,317.50
d. Portland Cement	3,922.00	bag	283.11	1,110,353.30
e. Sand	245.13	cu.m.	1,660.82	407,108.99
f. Gravel	490.25	cu.m.	1,460.82	716,167.99
Sub-total for E				2,485,194.71
F. Direct Unit Cost (C + E)				2,911,963.66
G. Overhead Contingencies & Miscellaneous (OCM)			8%	232,957.09
H. Contractors Profit (CP)			8%	232,957.09
I. Value Added Tax (VAT)			5%	168,893.89
J. Total Unit Cost				7,234.62

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	414(1) Forms and Falseworks
Unit of Measurement	:	l.s
Output per hour	:	1.00 ea./hr.
Quantity	:	1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	54.00	647.61	34,970.94
b. Skilled Laborer	4	54.00	468.87	101,275.92
C. Laborer	8	54.00	361.25	156,060.00
Sub-total for A				**292,306.86**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
Minor Tools (10% of Labor)				29,230.69
Sub-total for B				**29,230.69**
C. Total (A + B)				**321,537.55**
D. Output / day	8.00	cu.m./day		
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Forms and Falseworks	1.00	l.s.	300,000.00	300,000.00
Sub-total for E				**300,000.00**
F. Direct Unit Cost (C + E)				**621,537.55**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		**49,723.00**
H. Contractors Profit (CP)		8%		**49,723.00**
I. Value Added Tax (VAT)		5%		**36,049.18**
J. Total Unit Cost				**757,032.73**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	500(1)b1 Pipe Culverts, *610mm. dia. - Class IV*
Unit of Measurement	:	ln.m.
Output per hour	:	1.00 ln.m./hr.
Quantity	:	220.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	12.10	647.61	7,836.08
	b. Skilled Laborer	2	12.10	468.87	11,346.65
	c. Laborer	4	12.10	361.25	17,484.50
	Sub-total for A				**36,667.24**
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2014 ACEL Rates)				
	a. Backhoe (0.80 cu.m)	1	6.05	12,296.00	74,390.80
	b. Plate Compactor (5 Hp)	1	6.05	984.00	5,953.20
	Minor Tools (10% of Labor)				3,666.72
	Sub-total for B				**84,010.72**
C.	Total (A + B)				**120,677.96**
D.	Output / day	8.00	ln.m./day		
	Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E.	Materials				
	a. Portland Cement	170.28	bag	283.11	48,207.79
	b. Sand	9.68	cu.m	1,660.82	16,076.76
	c. R.C. Pipes (610mm dia.)	220.00	pc.	2,800.00	616,000.00
	d. Sand Bedding/Selected Sandy Soil	19.36	cu.m	1,660.82	32,153.51
	Sub-total for E				**712,438.06**
F.	Direct Unit Cost (C + E)				**833,116.02**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**66,649.28**
H.	Contractors Profit (CP)		8%		**66,649.28**
I.	Value Added Tax (VAT)		5%		**48,320.73**
J.	Total Unit Cost				**4,612.43**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)	
Item No./Description	:	504(5)	Cleaning/Reconditioning of Drainage Structures
Unit of Measurement	:	l.s	
Output per hour	:	-	ln.m./hr.
Quantity	:	1.00	

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	90.00	647.61	58,284.90
	b. Skilled Laborer	4	90.00	468.87	168,793.20
	c. Laborer	12	90.00	361.25	390,150.00
	Sub-total for A				**617,228.10**
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2014 ACEL Rates)				
	a. Payloader (1.50 m^3)	2	72.00	13,864.00	1,996,416.00
	b. Dump Truck (12 yd^3)	2	72.00	11,360.00	1,635,840.00
	Minor Tools (10% of Labor)				61,722.81
	Sub-total for B				**3,693,978.81**
C.	Total (A + B)				**4,311,206.91**
D.	Output / day	-	ln.m./day		
	Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E.	Materials				
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				**4,311,206.91**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**344,896.55**
H.	Contractors Profit (CP)		8%		**344,896.55**
I.	Value Added Tax (VAT)		5%		**250,050.00**
J.	Total Unit Cost				**5,251,050.02**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : 600(4) Curb and Gutter, *Cast-in-Place*
Unit of Measurement : ln.m.
Output per hour : 10.30 ln.m./hr.
Quantity : 2,650.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	32.16	647.61	20,827.26
	b. Skilled Laborer	4	32.16	468.87	60,315.80
	c. Laborer	8	32.16	361.25	92,942.96
	Sub-total for A				**174,086.03**
	Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B.	Equipment Cost (2014 ACEL Rates)				
	a. Concrete Vibrator	1	32.16	730.00	23,476.94
	b. Bagger Mixer	1	32.16	1,376.00	44,252.43
	c. Water Truck	1	1.61	19,600.00	31,516.99
	Minor Tools (10% of Labor)				17,408.60
	Sub-total for B				**116,654.96**
C.	Total (A + B)				**290,740.99**
D.	Output / day	82.40	Ln.m./day		
	Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E.	Materials				
	a. Portland Cement	3,418.50	bag	283.11	967,807.95
	b. Fine Aggregates	185.50	cu.m.	1,660.82	308,082.48
	c. Coarse Aggregates	371.00	cu.m.	1,460.82	541,964.96
	d. 1/2" thk x 4' x 8 - 4 uses Marine Plywood	159.00	pcs.	750.00	119,250.00
	e. Form Lumber - 4 uses	7,598.88	bd.ft.	40.00	303,955.00
	f. C.W. Nails	291.50	kg.	60.00	17,490.00
	Miscellaneous (2% of Materials)				45,171.01
	Sub-total for E				**2,303,721.40**
F.	Direct Unit Cost (C + E)				**2,594,462.38**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**207,556.99**
H.	Contractors Profit (CP)		8%		**207,556.99**
I.	Value Added Tax (VAT)		5%		**150,478.82**
J.	Total Unit Cost				**1,192.47**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : 612(1) Reflectorized Thermoplastic Pavement Markings (White)
Unit of Measurement : sq.m.
Output per hour : 25.00 sq.m./hr.
Quantity : 265.00

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Construction Foreman	1	1.33	647.61	858.08
	b. Skilled Laborer	2	1.33	468.87	1,242.51
	c. Laborer	6	1.33	361.25	2,871.94
	Sub-total for A				**4,972.53**
	Name and Capacity	No. of Equipment	No. of Days	Daily Rate	Amount
B.	Equipment Cost (2014 ACEL Rates)				
	a. Cargo Truck /Delivery Truck (5T)	1	1.33	6,264.00	8,299.80
	b. Applicator Machine	1	1.33	750.00	993.75
	c. Kneading Machine	1	1.33	1,500.00	1,987.50
	Minor Tools (10% of Labor)				497.25
	Sub-total for B				**11,778.30**
C.	Total (A + B)				**16,750.83**
D.	Output / day	200.00 sq.m./day			
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Thermoplastic Paint (White)	86.13	bag	1,585.00	136,508.13
	b. Glass Beads (Pre-Mix)	8.75	bag	2,500.00	21,862.50
	c. Primer	31.80	liter	282.00	8,967.60
	d. LPG (50kg.)	1.06	cyl.	3,900.00	4,134.00
	e. LPG (12kg.)	0.53	cyl.	936.00	496.08
	f. Calsumine	33.13	kg.	10.00	331.25
	Miscellaneous (5% of Materials)				8,614.98
	Sub-total for E				**180,914.53**
F.	Direct Unit Cost (C + E)				**197,665.36**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**15,813.23**
H.	Contractors Profit (CP)		8%		**15,813.23**
I.	Value Added Tax (VAT)		5%		**11,464.59**
J.	Total Unit Cost				**908.51**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	612(2) Reflectorized Thermoplastic Pavement Markings (Yellow)
Unit of Measurement	:	sq.m.
Output per hour	:	25.00 sq.m./hr.
Quantity	:	397.50

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	1.99	647.61	1,287.12
b. Skilled Laborer	2	1.99	468.87	1,863.76
c. Laborer	6	1.99	361.25	4,307.91
Sub-total for A				**7,458.79**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
a. Cargo Truck	1	2.0	6,264.00	12,449.70
b. Applicator Machine	1	2.0	750.00	1,490.63
c. Kneading Machine	1	2.0	1,500.00	2,981.25
d. Traffic Safety Devices	1	2.0	500.00	993.75
Minor Tools (10% of Labor)				745.88
Sub-total for B				**18,661.20**
C. Total (A + B)				**26,119.99**
D. Output / day	200.00 sq.m./day			
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Thermoplastic Paint (Yellow)	129.19	bag	1,800.00	232,537.50
b. Glass Beads	13.12	bag	2,500.00	32,793.75
c. Primer	47.70	lit.	277.00	13,212.90
d. LPG (50kg.)	1.59	cyl.	3,900.00	6,201.00
e. LPG (12kg.)	0.80	cyl.	936.00	744.12
f. Calsumine	49.69	Kg.	10.00	496.88
Miscellaneous (5% of Materials)				
Sub-total for E				**285,986.15**
F. Direct Unit Cost (C + E)				**312,106.14**
G. Overhead Contingencies & Miscellaneous (OCM)			8%	**24,968.49**
H. Contractors Profit (CP)			8%	**24,968.49**
I. Value Added Tax (VAT)			5%	**18,102.16**
J. Total Unit Cost				**956.34**

DETAILED UNIT PRICE ANALYSIS

Name of Project	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
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				
	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, (2014 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.	1,100.00	5,500.00
	b. Selected Fill	6.00	cu.m.	462.00	2,772.00
	c. Soil Poisoning	1.00	lit.	1,183.00	1,183.00
	II. Concrete Works (Footing,Column,Beams) Slab on Grade)				
	a. Portland Cement	60.00	bag	283.11	16,986.54
	b. Crushed Gravel G-1"	10.00	cu.m.	1,100.00	11,000.00
	c. Washed Sand	4.00	cu.m.	1,300.00	5,200.00
	III. Reinforcing Bars (Footing Columns,Beams) Slab on Grade)				
	a. Deformed Round Bar,Grade 40	530.00	kg.	40.00	21,200.00
	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.	15.00	3,600.00
	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	283.11	18,402.08
	c. Washed Sand	7.00	cu.m.	1,300.00	9,100.00
	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	1,273.44	2,546.88
	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	800.00	kg.	48.00	38,400.00
b. 50 x 50 x 6mm. L	380.00	kg.	48.00	18,240.00
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	675.00	bd.ft.	40.00	27,000.00
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.	9.00	135.00
i. 19mm. dia. PVC Elbow	20.00	pc.	9.00	180.00
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.	23.00	46.00
m. 25mm. dia. RSC Elbow	2.00	pc.	21.00	42.00
n. 25mm. dia. RSC Clamp	9.00	pc.	25.00	225.00
o. 25mm. dia. Service Entrance Cap	1.00	pc.	201.00	201.00
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.	34.00	238.00
s. Electrical Tape (Big)	6.00	pc.	31.00	186.00
t. Panel Board (Side Main w/ Branches)	1.00	set	1,627.00	1,627.00
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.	148.00	148.00
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				**353,489.26**
F.	Direct Cost (C + E)				**474,953.07**
G.	Overhead Contigencies and Miscellaneous (OCM)		8%		**37,996.25**
H.	Contractor's profit (CP)		8%		**37,996.25**
I.	Value Added Tax (VAT)		5%		**27,547.28**
J.	Total Unit Cost				**578,492.84**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

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				
	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	5,000.00	5,000.00
	d. Electric Desk Fan	2.00	unit	1,800.00	3,600.00
	e. Folding Beds, Good Quality	2.00	each	2,700.00	5,400.00
	f. 6" Sleeping Bed w/pillows and Blanket	2.00	each	5,000.00	10,000.00
	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	7,000.00	7,000.00
	o. Bond Paper (Long)	15.00	ream	300.00	4,500.00
	p. Bond Paper (Short)	15.00	ream	270.00	4,050.00
	q. Yellow Pad	4.00	pad	35.00	140.00
	r. White Board Marker (Assorted colors)	8.00	pc.	75.00	600.00
	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	6.00	pc.	85.00	510.00
	Lighting/Water Fixtures:				
	a. Electric Bill	15.00	mo.	2,500.00	37,500.00
	b. Water Bill	15.00	mo.	1,500.00	22,500.00
	c. LPG Gasul (11 Kg.)	15.00	mo.	900.00	13,500.00
	Sub-total for E				**148,445.00**
F.	Direct Unit Cost (C + E)				**148,445.00**
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		**-**
H.	Contractors Profit (CP)		8%		**11,875.60**
I.	Value Added Tax (VAT)		5%		**8,016.03**
J.	Total Unit Cost				**168,336.63**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

Item No./Description : B.5 Project Billboard/Signboard
Unit of Measurement : each
Output per hour :
Quantity : 4.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	4.0	611.92	2,447.68
b. Skilled Laborer	1	4.0	443.20	1,772.80
c. Laborer	2	4.0	342.24	2,737.92
Sub-total for A				**6,958.40**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
Sub-total for B				-
C. Total (A + B)				**6,958.40**
D. Output / day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. 1/4" thk. 4' x 8' Marine Plywood	4.00	pc.	445.00	1,780.00
b. Tarpaulin (4' x 8')	4.00	pc.	1,200.00	4,800.00
c. Assorted Sizes Lumber	3,600.00	bd.ft.	40.00	144,000.00
d. C.W. Nails, Assorted Sizes	5.00	kg.	70.00	350.00
Sub-total for E				**150,930.00**
F. Direct Unit Cost (C + E)				**157,888.40**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		**12,631.07**
H. Contractors Profit (CP)		8%		**12,631.07**
I. Value Added Tax (VAT)		5%		**9,157.53**
J. Total Unit Cost				**48,077.02**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
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	108.00	611.92	66,087.36
b. First Aider	1	432.00	443.20	191,462.40
Sub-total for A				**257,549.76**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost				
Sub-total for B				-
C. Total (A + B)				**257,549.76**
D. Output / day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Pairs, Rubber Boots Men, Long with Steel Toe, Black	100.00	pair	400.00	40,000.00
b. Pairs, Working Gloves (Leather Materials)	100.00	pair	175.00	17,500.00
c. Pcs., Rain Coats (Rainforced, Hip Length Small, Medium & Large)	100.00	pc.	150.00	15,000.00
d. Hard Hat	100.00	pc.	250.00	25,000.00
e. Medical Supplies	1.00	set	5,000.00	5,000.00
Sub-total for E				**102,500.00**
F. Direct Unit Cost (C + E)				**360,049.76**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		**28,803.98**
H. Contractors Profit (CP)		8%		**28,803.98**
I. Value Added Tax (VAT)		5%		**20,882.89**
J. Total Unit Cost				**438,540.61**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	B.8(2) Traffic Management
Unit of Measurement	:	l.s.
Output per hour	:	
Quantity	:	1.00

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
a. Construction Foreman	1	432.0	611.92	264,349.44
b. Laborer	12	432.0	342.24	1,774,172.16
Sub-total for A				**2,038,521.60**
Name and Capacity	**No. of Equipment**	**No. of Days**	**Daily Rate**	**Amount**
B. Equipment Cost (2014 ACEL Rates)				
Sub-total for B				-
C. Total (A + B)				**2,038,521.60**
D. Output / day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Warning Signs and Barricades	1.00	l.s.	250,000.00	250,000.00
Sub-total for E				**250,000.00**
F. Direct Unit Cost (C + E)				**2,288,521.60**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		-
H. Contractors Profit (CP)		8%		**183,081.73**
I. Value Added Tax (VAT)		5%		**123,580.17**
J. Total Unit Cost				**2,595,183.49**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

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 (2014 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. Motorized Road Grader, G710A	1	3.00	17,384.00	52,152.00
e. Backhoe	2	3.00	12,296.00	73,776.00
f. Vibratory Roller (10 m.t.), SP56	1	3.00	14,768.00	44,304.00
g. Backhoe w/ Breaker (0.80 m^3)	2	3.00	15,984.80	95,908.80
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				**1,022,236.80**
C. Total (A + B)				**1,022,236.80**
D. Output / day				
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				-
Sub-total for E				-
F. Direct Unit Cost (C + E)				**1,022,236.80**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		-
H. Contractors Profit (CP)		8%		-
I. Value Added Tax (VAT)		5%		**51,111.84**
J. Total Unit Cost				**1,073,348.64**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME	:	Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)
Item No./Description	:	B.4(1) Construction Survey and Staking
Unit of Measurement	:	km
Output per hour	:	0.04
Quantity	:	2.65

Designation	No. of Person	No. of Days	Daily Rate	Amount
A. Labor				
(For Field Works) Output: 0.30 km/day				
a. Geodetic Engineer	1	4.42	906.36	4,003.09
b. Skilled Laborer	2	4.42	443.20	3,914.93
c. Laborer	4	4.42	342.24	6,046.24
(For Office Works) Output: 0.10 km/day				
a. Geodetic Engineer	1	13.25	906.36	12,009.27
b. Skilled Laborer	2	13.25	443.20	11,744.80
Sub-total for A				**37,718.33**
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	4.42	800.00	3,533.33
Minor Tools (10% of Labor)				3,771.83
Sub-total for B				**7,305.17**
C. Total (A + B)				**45,023.50**
D. Output / day	0.32	km/day		
Name and Specification	**Quantity**	**Unit**	**Unit Cost**	**Total**
E. Materials				
a. Standard Stake Plan (800mm x 910mm)	65.00	pcs	250.00	16,250.00
b. Blue Printing	325.00	pcs	50.00	16,250.00
Miscellaneous (5% of Materials)				1,625.00
Sub-total for E				**34,125.00**
F. Direct Unit Cost (C + E)				**79,148.50**
G. Overhead Contingencies & Miscellaneous (OCM)		8%		**6,331.88**
H. Contractors Profit (CP)		8%		**6,331.88**
I. Value Added Tax (VAT)		5%		**4,590.61**
J. Total Unit Cost				**36,378.44**

DETAILED UNIT PRICE ANALYSIS

PROJECT NAME : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

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

Unit of Measurement : mos.

Output per hour :

Quantity : -

	Designation	No. of Person	No. of Days	Daily Rate	Amount
A.	Labor				
	a. Service Driver	1	0.00	443.20	-
	Sub-total for A				-
	Name and Capacity	No. of Equipment	No. of Mos.	Monthly Rate	Amount
B.	Equipment Cost				-
	Sub-total for B				-
C.	Total (A + B)				-
D.	Output / day				
	Name and Specification	Quantity	Unit	Unit Cost	Total
E.	Materials				
	a. Fuel (20 Liters per Day)	-	lit.	41.00	-
	b. Engine Oil Lubr icants, Greasing (20 % of Fuel)	1.00	l.s.	-	-
	c. Tires	5.00	each	-	-
	d. Spare Parts	1.00	l.s.	-	-
	Sub-total for E				-
F.	Direct Unit Cost (C + E)				-
G.	Overhead Contingencies & Miscellaneous (OCM)		8%		-
H.	Contractors Profit (CP)		8%		-
I.	Value Added Tax (VAT)		5%		-
J.	Total Unit Cost				#DIV/0!

PROJECT : Construction/Maintenance of Flood Mitigation Structures and Drainage Systems - Flood Control for Urban Core and Central District of Zamboanga City to include Pumping Station and RROW, Zamboanga City (Package II)

STATION LIMITS: : Jct. Alfaro St. - Roberto Vilares St. To Jct. Veterans Ave. 1,340.00 Ln.M.
Jct. Martha Drive - Evangelista St. To Jct. Veterans Ave. 210.00 Ln.M.
Jct. Martha Drive - Evangelista St. To Kasanyangan Rd (Outfall) 1,100.00 Ln.M.
TOTAL 2,650.00 Ln.M.

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 Field Office for the Field Engineers	1.00	432.00
B.4(1)	Construction Survey and Staking	2.65	13.25
B.5	Project Billboard/Signboard	4.00	4.00
B.7	Occupational Safety and Health Program	1.00	432.00
B.8(2)	Traffic Management	1.00	432.00
B.9	Mobilization & Demobilization	1.00	6.00
101(1)	Removal of Structures and Obstructions	1.00	66.00
101(3)b5	Removal of Structures and Obstruction, (0.28m PCCP Unreinforced)	12,455.00	31.97
101(3)c2	Removal of Structures and Obstruction, (ACP, 0.10m thk.)	12,455.00	25.95
101(5)a4	Removal of Pipes other than Pipe Culverts, 150mm dia. PVC	5,300.00	110.42
103(1)a	Structure Excavation	19,875.00	124.22
105(1)a	Subgrade Preparation	2,915.00	1.21
200(1)	Aggregate Subbase Course, 0.30m. Thick	1,033.50	2.58
311(1)e1	Portland Cement Concrete Pavement (Unreinforced) 0.28 mm. thick	2,915.00	6.34
404(1)a	Reinforcing Steel Bar, (Grade 40)	315,094.88	218.82
404(1)b	Reinforcing Steel Bar, (Grade 60)	942,610.54	163.65
405(1)b2	Structural Concrete, 27.58 Mpa	6,776.58	282.36
407(5)	Lean Concrete	490.25	43.77
414(1)	Forms and Falseworks	1.00	54.00
500(1)b1	Pipe Culverts, 610mm. dia. - Class IV	220.00	12.10
504(5)	Cleaning/Reconditioning of Drainage Structures	1.00	90.00
600(4)	Curb and Gutter, Cast-in-Place	2,650.00	32.16
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	265.00	1.33
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	397.50	1.99

6 WORKING DAYS: W1 – W75

TOTAL WORKING DAYS	432
SUNDAYS & HOLIDAYS	90
INCLEMENT WEATHER & CURING	90
TOTAL NO. OF CAL. DAYS	612

Prepared by :
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Engineer II

Checked by:
JERALD R. BARRERA
Engineer II

Submitted by:
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Chief, Construction Division

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KHADAFFY D. TANGGOL
OIC - Assistant Regional Director

Approved:
CAYAMOMBAO D. DIA
OIC - Regional Director