



PROGRAM OF WORKS

BILL OF QUANTITIES

ELEC 2024 - REGION X- EL SALVADOR CITY - 001

School : Himaya National High School		Date:						
School I.D : 304768		Budget Allocation: -						
Region : 10		Engineering and Administrative Overhead: 0.00						
Division : El Salvador City		Approved Budget for the Contract: -						
Project Title : Electrification of un-energized school and Modernization of electrical system of on grid school		Completion Period: 120.00						
Upgrading of Electrical System (Underground System)		Minimum Required Manpower:						
		General Foreman	Welder	Carpenter				
		Helper	Mason	Painter				
Location : Himaya, El Salvador City		Minimum Required Equipment:						
		Hand Tools	Welding Machine					
		One-Bagger Mixer	Bar Cutter					
Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost (8) / (5)	Adjusted Total Cost (9)
					Total Cost (6)	Unit Cost (7) (6) / (5)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
A	Temporary Facilities of Engineer							
A.1	Temporary Facilities		Month	4.00				
B	Other General Requirements							
B.1	Fire Safety Inspection Certificate (FSIC)		lot	1.00				
SPL.1	Project Billboard / Signage		Each	1.00				
SPL.2	Construction Safety and Health		Month	4.00				
B.2	Security/ Bill Deposit		Ls	1.00				
C	Mobilization and Demobilization							
C.1	Mobilization and Demobilization		Ls	1.00				
1.0000	Earthworks							
1 (b)	Structural Excavation		cu m	80.00				
1 (c)	Backfilling of Excavated Materials		cu m	70.00				
10.0000	Electrical Works							
E 2 (a)	Service Entrance Concrete Pedestal		lot	1.00				
E 10 (a)	Primary Extension		set	1.00				
E 10 (b)	Distribution Poles		pc	1.00				
E 10 (c)	Distribution Transformer,Accessories and Assembly		unit	1.00				
E 10 (d)	Grounding Assembly		set	1.00				
E 10 (e)	Service Assembly		set	1.00				
E 10 (f)	Secondary Assembly		set	1.00				
E 10 (g)	Guy Assembly and Anchor Assembly		set	1.00				
E 10 (i)	Wires and Wiring Devices		Ls	1.00				
E 10 (j)	Panel Board and Circuit Protections		Ls	1.00				
E 10 (k)	Conduit Works, Boxes & Fittings		Ls	1.00				
E 10 (l)	Metering System		set	1.00				
E11	Handhole and ductbank works							
E 11 (a)	Handhole Works		set	6.00				
E 11 (b)	Duct Bank Works		lm	6.00				
E12	Flood light Installation works							
12.0002	Bracket Mounted LED Flood Light SOLAR 300 watts with 5 meter wire, 1 year warranty years Warranty		set	22.00				
					-	Total Construction Cost		-

Prepared by:

Contractor/Authorized Representative



PROGRAM OF WORKS
DETAILED COST ESTIMATE
 (TOTAL CONSTRUCTION COST/ ABC)
 ELEC 2024 - REGION X- EL SALVADOR CITY - 001

PROJECT : Upgrading of Electrical System (Underground System)
 SCHOOL : Himaya National High School
 LOCATION : Himaya, El Salvador City
 OWNER : DEPARTMENT OF EDUCATION

CONTRACT DURATION : 120 CD

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
							(6) + (7)	(5) x (8)	5% [(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
A	Temporary Facilities of Engineer											
A.1	Temporary Facilities	4.00	Month	-				-	-	-	-	-
B	Other General Requirements											
B.1	Fire Safety Inspection Certificate (FSIC)	1.00	lot	-				-	-	-	-	-
SPL.1	Project Billboard / Signage	1.00	Each	-				-	-	-	-	-
SPL.2	Construction Safety and Health	4.00	Month	-				-	-	-	-	-
B.2	Security/ Bill Deposit	1.00	Ls	-				-	-	-	-	-
C	Mobilization and Demobilization											
C.1	Mobilization and Demobilization	1.00	Ls	-				-	-	-	-	-
1.0000	Earthworks											
1 (b)	Structural Excavation	80.00	cu m	-				-	-	-	-	-
1 (c)	Backfilling of Excavated Materials	70.00	cu m	-				-	-	-	-	-
10.0000	Electrical Works											
E 2 (a)	Service Entrance Concrete Pedestal	1.00	lot	-				-	-	-	-	-
E 10 (a)	Primary Extension	1.00	set	-				-	-	-	-	-
E 10 (b)	Distribution Poles	1.00	pc	-				-	-	-	-	-
E 10 (c)	Distribution Transformer,Accessories and Assembly	1.00	unit	-				-	-	-	-	-
E 10 (d)	Grounding Assembly	1.00	set	-				-	-	-	-	-
E 10 (e)	Service Assembly	1.00	set	-				-	-	-	-	-
E 10 (f)	Secondary Assembly	1.00	set	-				-	-	-	-	-
E 10 (g)	Guy Assembly and Anchor Assembly	1.00	set	-				-	-	-	-	-
E 10 (i)	Wires and Wiring Devices	1.00	Ls	-				-	-	-	-	-

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
E 10 (j)	Panel Board and Circuit Protections	1.00	Ls	-				-	-	-	-	-
E 10 (k)	Conduit Works, Boxes & Fittings	1.00	Ls	-				-	-	-	-	-
E 10 (l)	Metering System	1.00	set	-				-	-	-	-	-
E11	Handhole and ductbank works											
E 11 (a)	Handhole Works	6.00	set	-				-	-	-	-	-
E 11 (b)	Duct Bank Works	6.00	lm	-				-	-	-	-	-
E12	Flood light Installation works											
12.0002	Bracket Mounted LED Floodlight SOLAR 300 watts with 5 meter wire, 1 year warranty years Warranty	22.00	set	-				-	-	-	-	-
	TOTAL CONSTRUCTION COST			-							-	

Prepared by:

Contractor/Authorized Representative



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: A.1

Description: Temporary Facilities

Quantity: 4.00
Output : 1.00
Unit: Month

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Rental of Office/ Storage House (including light and water)	Month	4.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)				Php -
E.	Overhead,Contingencies and Miscellaneous (Ocm)				0% of D.
F.	Contractor's Profit				10% of D.
G.	Value Added Tax (VAT)				5% of (D+E+F)
H.	Adjusted Total Cost (D+E+F+G)				Php -
I.	Adjusted Unit Cost (H/Quantity)				Php -



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: B.1

Description: Fire Safety Inspection Certificate (FSIC)

Quantity: 1.00

Output : 1.00

Unit: lot

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Skilled Laborer	1	40.00			
Sub-Total (Labor)					Php	-
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
Sub-Total (Equipment)					Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
Sub-Total (Materials)					Php	-
D.	Direct Cost (A+B+C)			Php	-	
E.	Overhead,Contingencies and Miscellaneous (Ocm)			0% of D.		
F.	Contractor's Profit			0% of D.		
G.	Value Added Tax (VAT)			5% of (D+E+F)	-	
H.	Adjusted Total Cost (D+E+F+G)			Php	-	
I.	Adjusted Unit Cost (H/Quantity)			Php	-	



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: SPL.1

Description: Project Billboard

Quantity: 1.00
Output: 1.00
Unit: Each

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	4.00		
	Skilled Laborer	1	4.00		
	Unskilled Laborer	1	4.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	8' x 8' Tarpaulin, 2 sets	sq ft	64.00		
	Good Lumber (Frames)	bd.ft	48.00		
	Assorted CW Nails	kg	1.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)				Php -
E.	Overhead,Contingencies and Miscellaneous (Ocm)				12% of D. -
F.	Contractor's Profit				10% of D. -
G.	Value Added Tax (VAT)				5% of (D+E+F) -
H.	Adjusted Total Cost (D+E+F+G)				Php -
I.	Adjusted Unit Cost (H/Quantity)				Php -



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: SPL.2

Description: Construction Safety and Health

Quantity: 4.00
Output : 1.00
Unit: Month

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Safety Officer	1	960.00			
	First Aider	1	960.00			
Sub-Total (Labor)					Php	-
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
Sub-Total (Equipment)					Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	First Aid Kit	Ls	1			
	Personal Protective equipment (PPE)					
	Safety Helmet	man - days	10			
	Safety Shoes	man - days	10			
	Safety Gloves	man - days	25			
	Signages and Barricades					
	PPE Signage (4' x 8')	set	1			
	Safety First (4' x 4')	set	1			
	Warning Signs (2' x 3')	set	1			
	Caution Tape, 100 ft	roll	1			
Sub-Total (Materials)					Php	-
D.	Direct Cost (A+B+C)			Php	-	
E.	Overhead,Contingencies and Miscellaneous (Ocm)			0% of D.		
F.	Contractor's Profit			10% of D.	-	
G.	Value Added Tax (VAT)			5% of (D+E+F)	-	
H.	Adjusted Total Cost (D+E+F+G)			Php	-	
I.	Adjusted Unit Cost (H/Quantity)			Php	-	



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: B.2

Description: Security/ Bill Deposit

Quantity: 1.00

Output: 1.00

Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Security/ Bill Deposit	1	1.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			0% of D.	-
F.	Contractor's Profit			0% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: C.1

Description: Mobilization and Demobilization

Quantity: 1.00

Output : 1.00

Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Self Loading Truck and Accessories	1	24		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (Ocm)			0% of D.	
F.	Contractor's Profit			0% of D.	
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: 1 (b)

Description: Structural Excavation

Quantity: 80.00
Output per hour: 20.00
Unit: cu m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman	1	4.00			
	Unskilled Laborer	3	4.00			
Sub-Total (Labor)					Php	-
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	Backhoe (0.80 cu.m.)	1	2.80			
	Dump Truck (12 cu.yd.)	2	2.80			
Sub-Total (Equipment)					Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
Sub-Total (Materials)					Php	-
D.	Direct Cost (A+B+C)			Php	-	
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-	
F.	Contractor's Profit			10% of D.	-	
G.	Value Added Tax (VAT)			5% of (D+E+F)	-	
H.	Adjusted Total Cost (D+E+F+G)			Php	-	
I.	Adjusted Unit Cost (H/Quantity)			Php	-	



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: 1 (c)

Description: Backfilling of Excavated Materials

Quantity: 70.00
 Output per hour: 9.84
 Unit: cu m

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman	1	7.11			
	Unskilled Laborer	3	7.11			
Sub-Total (Labor)					Php	-
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	Plate Compactor (5hp)	1	5.34			
	Backhoe (0.80 cu.m.)	1	5.34			
Sub-Total (Equipment)					Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
Sub-Total (Materials)					Php	-
D.	Direct Cost (A+B+C)			Php	-	
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-	
F.	Contractor's Profit			10% of D.	-	
G.	Value Added Tax (VAT)			5% of (D+E+F)	-	
H.	Adjusted Total Cost (D+E+F+G)			Php	-	
I.	Adjusted Unit Cost (H/Quantity)			Php	-	



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 2 (a)

Description: Service Entrance Concrete Pedestal

Quantity: 1.00

Output: 1.00

Unit: lot

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	40.00		
	Skilled Laborer	1	40.00		
	Unskilled Laborer	2	40.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	mini backhoe	1	8.00		
	concrete mixer	1	24.00		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Service Entrance Concrete Pedestal	unit	1.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (a)

Description: Primary Extension

Quantity: 1.00

Output: 1.00

Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	16.00		
	Skilled Laborer	2	16.00		
	Unskilled Laborer	2	16.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Boom Truck	1	8.00		
	Bucket Truck	1	8.00		
	Hole Digger	1	8.00		
	Cable Puller/Tensioner	1	8.00		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Bolt, Oval Eye 5/8" X 12", Hot Dip Galvanized, Forged	pc	1		
	Bolt, Single Upset 5/8" X 10", Hot Dip Galvanized, Forged	pc	1		
	Bolt, Thimble Eye 5/8" X 10", Angle Type, HDG, Forged	pc	2		
	Clamp, Hotline, #2 - #4/0 ACSR	pc	2		
	Clamp, Loop Dead-end, #6 to #2/0 ACSR	pc	2		
	Clevis, Secondary Swinging Without Spool, Hot Dip Galvanized	pc	1		
	Conductor, Bare, ACSR #2, AWG 6/1	mtrs	30		
	Conductor, Bare, ACSR #1/0, AWG 6/1	mtrs			
	Fuse Cut-out & Arrester Combination, 15KV, Class 200	pc	2		
	Insulator, Pin Type, Polymer, ANSI, Class 55-3	pc			
	Insulator, Spool, 3", ANSI, Class 53-4	pc	2		
	Insulator, Suspension, 4 shed, Polymer, 15KV	pc	2		
	Nut, Eye, 5/8", Conventional, Hot Dip Galvanized	pc	2		
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	pc	6		
	Washer, Square, Flat, 4" X 4" X 1/2"	pc	4		
	Wire, Grounding, Galvanized, 3 Strand, 5/16" Dia.	ft	50		
	Wire, Tape, Armor, Aluminum Alloy, 0.5" X 0.3"	pc			
	Wire, Tie, Aluminum Alloy, Soft, #4 AWG	pc			
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (b)

Description: Distribution Poles

Quantity: 1.00
Output per hour: 0.25
Unit: pc

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	4.00		
	Skilled Laborer	2	4.00		
	Unskilled Laborer	2	4.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Boom Truck	1	4.00		
	Hole Digger	1	4.00		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Pole, Steel, 40', Bare-3.5 mm, 86 Micron, 1500 kgs (Minimum Load Break)	pc	1.00		
	Pole, Steel, 35', Bare-3.0 mm, 86 Micron, 500 kgs (Minimum Load Break)	pc			
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (c)

Description: Distribution Transformer, Accessories and Assembly

Quantity: 1.00
Output per hour: 0.13
Unit: unit

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	8.00		
	Skilled Laborer	2	8.00		
	Unskilled Laborer	2	8.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Boom Truck	1	8.00		
	Bucket Truck	1	8.00		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Transformer, Pole Type, Conventional, Amorphous, 50 KVA, Cu-Cu Winding	pc	1.00		
	Clamp, Pole, Single Support	set	2.00		
	Fuse Cut-out & Arrester Combination, 15KV, Class 200	set	1.00		
	Wire, Grounding, Aluminum Alloy, #4 AWG	ft	6.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (d)

Description: Grounding Assembly

Quantity: 1.00

Output: 1.00

Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	1.00		
	Skilled Laborer	1	1.00		
	Unskilled Laborer	1	1.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Conductor, Bare, ACSR #2, AWG 6/1	m	50.00		
	Connector, Compression, YHO 125, Run #6 - #1/0 - Tap #6 - #2	pc	1.00		
	Connector, Ground Rod Clamp, 5/8"	pc	1.00		
	Rod, Ground Steel, Galvanized, 5/8" X 10', Hot Dip Galvanized	pc	1.00		
	Staple, Ground wire, 1/2" X 2"	lbs	1.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (e)

Description: Service Assembly

Quantity: 1.00
Output per hour: 0.25
Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	4.00		
	Skilled Laborer	1	4.00		
	Unskilled Laborer	1	4.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Connector, Wedge Type, #6 - #6 ACSR	pc	1.00		
	Insulator, Spool, 1-3/4", ANSI, Class 53-2	pc	1.00		
	Wire, Holder, Service, #22 X 2-1/2", Wood Screw	pc	1.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (f)

Description: Secondary Assembly

Quantity: 1.00
Output per hour: 0.50
Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman	1	2.00			
	Skilled Laborer	1	2.00			
	Unskilled Laborer	1	2.00			
Sub-Total (Labor)					Php	-
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	bucket truck	1	2.00			
Sub-Total (Equipment)					Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	Bolt, Double Upset 5/8" X 10", Hot Dip Galvanized, Forged	pc	1.00			
	Bolt, Single Upset 5/8" X 10", Hot Dip Galvanized, Forged	pc	1.00			
	Insulator, Spool, 1-3/4", ANSI, Class 53-2	pc	2.00			
	Nut, Lock, MF Type, 5/8"	pc	2.00			
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	pc	2.00			
	Wire, Grounding, Aluminum Alloy, #4 AWG	ft	8.00			
Sub-Total (Materials)					Php	-
D.	Direct Cost (A+B+C)			Php	-	
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-	
F.	Contractor's Profit			10% of D.	-	
G.	Value Added Tax (VAT)			5% of (D+E+F)	-	
H.	Adjusted Total Cost (D+E+F+G)			Php	-	
I.	Adjusted Unit Cost (H/Quantity)			Php	-	



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (g)

Description: Guy and Anchor Assembly

Quantity: 1.00
Output per hour: 0.50
Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	2.00		
	Skilled Laborer	1	2.00		
	Unskilled Laborer	2	2.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Racet	1	2.00		
	Hole Digger	1	2.00		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Anchor, Expanding, 8 - Ways, Hot Dip Galvanized	pc	1.00		
	Attachment, Guy, Malleable Type with 11/16" Hole Diameter	pc	1.00		
	Bolt, Machine 5/8" X 8", Hot Dip Galvanized	pc	1.00		
	Clamp, Anchor Bonding. Single Eye Rod, 5/8"	pc	1.00		
	Clamp, Guy Straight, 3 Bolt, Heavy Duty Steel, Hot Dip Galvanized	pc	1.00		
	Connector, Compression, #2 - #4/0 ACSR Run To #6 - #2	pc	1.00		
	Nut, Lock, MF Type, 5/8"	pc	1.00		
	Rod, Anchor, Threaded, Single Eye, 5/8" X 7', Hot Dip Galvanized, Forged	pc	1.00		
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	pc	1.00		
	Wire, Grounding, Aluminum Alloy, #4 AWG	ft	1.00		
	Wire, Guy, Steel, 3/8", 7 Strand, High Strength	ft	50.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (k)

Description: Conduit, Boxes and Fitting

Quantity: 1.00

Output: 1.00

Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	64.00		
	Skilled Laborer	2	64.00		
	Unskilled Laborer	1	64.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
SERVICE ENTRANCE CAP					
	Service Entrance Cap 1/2" (Diecast Aluminum)	pc			
	Service Entrance Cap 2" (Diecast Aluminum)	pc			
	Service Entrance Cap 3" (Diecast Aluminum)	pc			
	Service Entrance Cap 4" (Diecast Aluminum)	pc	1.00		
RSC PIPE					
	25mmØ RSC Pipe	pc			
	50mmØ RSC Pipe	pc	10.00		
	80mmØ RSC Pipe	pc			
	100mmØ RSC Pipe	pc	10.00		
PVC PIPE					
	25mmØ PVC Pipe	pc	55.00		
	50mmØ PVC Pipe	pc			
	80mmØ PVC Pipe	pc			
	100mmØ PVC Pipe	pc	130.00		
OTHERS					
	Electrical Tape	pc	5.00		
	Rubber Electrical Tape	roll	5.00		
	Electrical Warning tape, RED "DANGER" Color	roll	3.00		
	Duct Seal	box	1.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)				Php -
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)				Php -
I.	Adjusted Unit Cost (H/Quantity)				Php -

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (i)

Description: Wires and Wiring Devices

Quantity: 1.00

Output: 1.00

Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	80.00		
	Skilled Laborer	2	80.00		
	Unskilled Laborer	1	80.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	125 mm ² THHN/THWN-2 Wire Stranded	m	590.00		
	50 mm ² THHN/THWN-2 Wire Stranded	m			
	14 mm ² THHN/THWN-2 Wire Stranded	m	60.00		
	8.0 mm ² THHN/THWN-2 Wire Stranded	m			
	5.5 mm ² THHN/THWN-2 Wire Stranded	m			
	3.5 mm ² THHN/THWN-2 Wire Stranded	m	300.00		
	GROUND WIRES				
	30 mm ² THHN/THWN-2 Wire Stranded	m	295.00		
	14 mm ² THHN/THWN-2 Wire Stranded	m			
	8.0 mm ² THHN/THWN-2 Wire Stranded	m	30.18		
	5.5 mm ² THHN/THWN-2 Wire Stranded	m			
	3.5 mm ² THHN/THWN-2 Wire Stranded	m			
	100 mm ² THHN/THWN-2 Wire Stranded	m			
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (j)

Description: Panel Board and Circuit Protections

Quantity: 1.00

Output: 1.00

Unit: Ls

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	40.00		
	Skilled Laborer	1	40.00		
	Unskilled Laborer	1	40.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Panel Box, Circuit Breaker and Grounding System				
	Panel Board				
	MAIN SWITCH BOARDS(MSB)	set	1.00		
	MAIN DISTRIBUTION BOARD(MBD)	set	1.00		
	DISTRIBUTION BOARD(DB)	set	2.00		
	LOAD CENTER(LC)	set			
	Circuit Breaker				
	200A, 2P Molded Case Circuit Breaker	pc	2.00		
	160A, 2P Molded Case Circuit Breaker	pc	3.00		
	125A, 2P Molded Case Circuit Breaker	pc	2.00		
	115A, 2P Molded Case Circuit Breaker	pc	3.00		
	Circuit Breaker, 60A 2P	pc	4.00		
	Circuit Breaker, 30A 2P	pc			
	Circuit Breaker, 20A 2P	pc	6.00		
	Grounding System				
	Grounding Rod, 2.4m x 16mm dia.	pc	4.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Underground System)

Location: Himaya, El Salvador City

Item: E 10 (I)

Description: Metering System

Quantity: 1.00
Output per hour: 0.13
Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman	1	8.00			
	Skilled Laborer	2	8.00			
	Unskilled Laborer	1	8.00			
Sub-Total (Labor)					Php	-
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	Electric Drill	1	8.00			
Sub-Total (Equipment)					Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	Meter, KWH, 1 Phase, Class 20, 240V, 2W, Form 3S, Electronic, Complete w/ TOU and Load Profiling	set	1.00			
	Meter Box, 10"X 14"X 18"	unit	1.00			
	Current Transformer 10/5 : 5, 15KV	unit	1.00			
	CT, Box, 10"X 14"X 18"	unit	1.00			
	Bracket, Secondary Without Spool	pc	4.00			
	Connector, Compression, #2 - #4/0 ACSR Run To #6 - #2	pc	9.00			
	Connector, Compression, #6 - #4 ACSR Run To 06 - #4	pc	9.00			
Sub-Total (Materials)					Php	-
D.	Direct Cost (A+B+C)			Php	-	
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-	
F.	Contractor's Profit			10% of D.	-	
G.	Value Added Tax (VAT)			5% of (D+E+F)	-	
H.	Adjusted Total Cost (D+E+F+G)			Php	-	
I.	Adjusted Unit Cost (H/Quantity)			Php	-	



DETAILED UNIT PRICE ANALYSIS

Project : Energization of Electrical System (Overhead System)

Location: Himaya, El Salvador City

Item: E 11 (a)

Description: **Hand hole Works**

Quantity: 6.00
 Output per hour: 0.13
 Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	48.00		
	Skilled Laborer	1	48.00		
	Unskilled Laborer	3	48.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Mini Backhoe	1	6		
	One - bagger Mixer	1	48		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Hand Holes, Type "A", Class Conrete Mixture with Gray Color Outdoor Rubberized Concrete paint inside & outside	set	6.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Energization of Electrical System (Overhead System)

Location: Himaya, El Salvador City

Item: E 11 (b)

Description: Duct Bank Works

Quantity: 6.00
 Output per hour: 0.50
 Unit: lm

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	12.00		
	Skilled Laborer	1	12.00		
	Unskilled Laborer	3	12.00		
Sub-Total (Labor)					Php -
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Mini Backhoe	1	2		
	Concrete Mixer	1	2		
Sub-Total (Equipment)					Php -
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Reinforced Concrete Encased Duct Bank, 310mm x 260mm (2-Way x 4" PVC Conduit)	lm	6.00		
Sub-Total (Materials)					Php -
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-



DETAILED UNIT PRICE ANALYSIS

Project : Energization of Electrical System (Overhead System)

Location: Himaya, El Salvador City

Item:

Description: Floodlight Installation Works

Quantity: 22.00
 Output per hour: 1.00
 Unit: set

A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	22.00		
	Skilled Laborer	1	22.00		
	Unskilled Laborer	2	22.00		
Sub-Total (Labor) Php					-
B.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Electric hand drill	1	22.00		
Sub-Total (Equipment) Php					-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Bracket Mounted LED Flood Light SOLAR 300 watts with 5 meter wire, 1 year warranty years Warranty	set	22.00		
Sub-Total (Materials) Php					-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (OCM)			12% of D.	-
F.	Contractor's Profit			10% of D.	-
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-