



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF EDUCATION  
**DIVISION OF EL SALVADOR CITY**  
Tuburan, Poblacion  
El Salvador City



**PROGRAM OF WORKS  
BILL OF QUANTITIES**  
ELEC 2019 - R X - EL SALVADOR CITY

<b>School: EL SALVADOR CITY NATIONAL HIGH SCHOOL</b>			<b>Date:</b>			
<b>School ID 304787</b>			<b>Budget Allocation:</b>			
<b>Region: X- NORTHERN MINDANAO</b>			<b>Engineering Administrative Overhea</b>			
<b>Division: EL SALVADOR CITY</b>			<b>Approved Budget for Contract:</b>			
<b>Project Title:</b>			<b>Completion Period: 120 calendar days</b>			
<b>ELECTRIFICATION OF EL SALVADOR CITY NATIONAL HIGH SCHOOL</b>			<b>Minimum Required Manpower:</b>			
			<b>General Foreman</b>		<b>Helper</b>	
<b>Plan:</b>			<b>Minimum Required Equipment:</b>			
<b>Location: EL SALVADOR CITY</b>			<b>Planer</b>		<b>Power Tools</b>	<b>Hand Tools</b>
<b>Item I.D.</b>	<b>Item Description</b>	<b>% of Total</b>	<b>Unit</b>	<b>Quantity</b>	<b>Total Cost</b>	<b>Remarks</b>
<b>I. DIRECT COST</b>						
	General Requirements		lot	1.00		
	Transformer		lot	1.00		
<b>Electrical Wirings Upgrading</b>						
7	Steel Works		lot	1.00		
10	Electrical Works		lot	1.00		
<b>Sub-Total</b>						
<b>II. INDIRECT COST 22% of (I)</b>						
Overhead Expenses (8%)						
Contingencies (3%)						
Miscellaneous (1%)						
Contractor's Profit (10%)						
<b>Sub-Total</b>						
<b>III. TAX 5%</b>						
<b>Sub-Total</b>						
<b>IV. TOTAL CONSTRUCTION COST (I + II + III)</b>						

Prepared by:

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Contractor/Authorized Representative



### DETAILED ESTIMATE

**PROJECT** : ELECTRIFICATION OF EL SALVADOR CITY NHS  
**SCHOOL** : EL SALVADOR CITY NHS  
**LOCATION** : EL SALVADOR CITY  
**OWNER** : DEPARTMENT OF EDUCATION  
**SUBJECT** : APPROVED BUDGET FOR CONTRACT

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
	<b>GENERAL REQUIREMENTS</b>							
	Mobilization/Temporary Structures, Utilities and Services/Demobilization / Standard Billboard / Material Testing/other requirements	lot	1.00					
	Permits & Electrical Connection Fee, Cost of Extension Line and Construction, Labor Cost of Primary Metering and Accessories and Bill Deposit (Local Electric Cooperative)	lot	1.00					
	Hauling Cost	lot	1.00					
	Safety and Health	lot	1.00					
	<b>Sub-total</b>							<b>0.00</b>
I.	<b>TRANSFORMERS</b>							
	Compact Type, Distribution Transformer, Conventional, Amorphous, 50 kVA,	set	3.00					
	Concrete Pole Spun Type (45) 14M x 500	pc	1.00					
	POLE , CON, SPUN TY, (25) 8M x 200	pc	1.00					
	Transformer and equipment grounding , on wood	pc	1.00					
	Prim Single Down Guy,(Prefd guy grip and Expanded)	pc	2.00					
	Underbuilt Neutral Attach't Dead- end (Grip & Clevis)	pc	1.00					
	Single X'mer , Hanger, Pole -CLP 10"Ø (75-100kVA)	set	1.00					
	Secondary Attachment on 45'-60' Pole Dead- End	set	1.00					
	Primary Single Cross-Arm, 8'	pc	1.00					
	Primary Double Cross-arm, Full -overhang., Dead End	set	1.00					
	Vertical Config., Dead-End , Single Phase	set	1.00					
	Vertical Config., Dead-End , Three Phase, Open-ye	set	1.00					
	Single Phase Primary Line , 20 KV (Double Pin)	set	1.00					
	Wire, ACSR, #2 AWG,Bare	m	344.00					
	Wire,CU, #6 AWG,Solid,WP	m	20.00					
	Wire,CU, #500 MCM AWG, Stranded,TW	m	63.50					
	BOLT, M (5/8X10)	pc	4.00					
	Clamp, H-LNE,PRTD FOR #6-1/0 & #8-1/0, CU -TAP	set	2.00					
	Connector, SVCE., FOR #500MCM CU-AL SPT-BLT TY	set	3.00					
	Connector,Crimpfit, for #2-1/0	set	1.00					
	Arresters, DIST CLS., 27kVA, Porcelain	set	3.00					
	CUT-Outs, HT Fuse, 100A,36kV, 170kV BIL	set	3.00					
	Fuselink , 3K	pc	3.00					
	Other assorted line hardwares and accessories	lot	1.00					
	<b>Sub-Total</b>							<b>0.00</b>
	<b>ELECTRICAL WIRINGS UPGRADING</b>							
7.00	<b>Steel Works</b>							
7.47	Pole, Steel, 25', Bare-3.0 mm, 86 Micron, 500 kgs (Minimum load Break)	pc	3.00					
	<b>Sub-total</b>							<b>0.00</b>
10.00	<b>Electrical Works</b>							
	<b>Roughing-ins</b>							
10.01	Secondary rack (4 porcelain)	set	2.00					
	U-bolt w/ nuts, 5/16 x 75mm dia	set	10.00					
	U-bolt w/ nuts, 5/16 x 100mm dia	set	2.00					
	Entrance Cap 100mm dia.	set	2.00					
10.37	Grounding Rod, 2.4m x 19mm dia.	set	1.00					
	RSC 100mmØ	pc	2.00					
	<b>Wires &amp; Fixtures</b>							

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
	<b>Cables, Copper, Stranded, TW/THW, THHN, 600 VOLTS</b>							
10.11	30 mm <sup>2</sup> THW Wire, Stranded (Ground wire)	m	55.00					
10.12	200 mm <sup>2</sup> , Wire, Copper, Stranded 0.6 kV, THHN	m	165.00					
10.28	MCCB in NEMA 3R Enclosure 500af, 600af, 3p, 240v, 60hz 65kaic	pc	1.00					
10.58	Electrical Tape	pc	2.00					
	Rubber tape	roll	2.00					
	Solderless connector, 80mm <sup>2</sup>	pc	3.00					
	Solderless connector, 14mm <sup>2</sup>	pc	3.00					
	<b>Sub-total</b>							<b>0.00</b>
I.	<b>DIRECT COST</b>							
II.	<b>INDIRECT COST 22% of (I-Gen. Req.)</b>							
III.	<b>TAX 5% of (I + II)</b>							
IV.	<b>TOTAL CONSTRUCTION COST (I + II + III)</b>							

Prepared:

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Contractor/Authorized Representative