

## PROGRAM OF WORKS

DepEd-Electrification 2018-Region X-Misamis Oriental

<b>School:</b> NAAWAN SENIOR HIGH SCHOOL (MAPUTI ES CAMPUS)			<b>Date:</b>			
<b>Region:</b> X- NORTHERN MINDANAO			<b>Budget Allocation:</b>			
<b>Division:</b> MISAMIS ORIENTAL			<b>Engineering Administrative Overhead:</b>			
<b>Project Title:</b>			<b>Approved Budget for Contract:</b>			
<b>ELECTRIFICATION OF NAAWAN SENIOR HIGH SCHOOL (MAPUTI ES CAMPUS)</b>			<b>Completion Period:</b>			
<b>Plan:</b>			<b>Minimum Required Manpower:</b>			
<b>Location:</b> NAAWAN, MISAMIS ORIENTAL			<b>General Foreman</b>			
			<b>Electrician</b> <b>Helper</b>			
			<b>Minimum Required Equipment:</b>			
			<b>Planer</b> <b>Power Tools</b> <b>Hand Tools</b>			

  

Item I.D.	Item Description	% of Total	Unit	Quantity	Total Cost	Remarks
	<b>I. DIRECT COST</b>					
	General Requirements		lot	1.00		
	<b>Transformer</b>		lot	1.00		
	<b>Electrical Wirings Upgrading</b>					
1	Earthworks		lot	1.00		
2	Concreting Works (3000 psi)		cu.m	4.63		
3	Rebar Works		kg	778.07		
4	Formworks		sq.m	15.97		
5	Masonry Works		sq.m	2.40		
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:

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Contractor/Authorized Representative

**PROJECT** : ELECTRIFICATION OF NAAWAN SENIOR HIGH SCHOOL (MAPUTI ES CAMPUS)  
**SCHOOL** : NAAWAN SENIOR HIGH SCHOOL  
**LOCATION** : NAAWAN, MISAMIS ORIENTAL  
**OWNER** : DEPARTMENT OF EDUCATION  
**SUBJECT** : BILL OF QUANTITIES

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 (Local Electric Cooperative)	lot	1.00					
	Safety and Health	lot	1.00					
	Hauling cost	lot	1.00					
	<b>Sub-total</b>							
I.	<b>TRANSFORMERS</b>							
	Distribution Transformer Pole Type, Conventional 50kva (34500/19920 PV, 120/240X139/277 SV)	set	1.00					
	Concrete Pole Spun Type (40) 12M x 350	pc	1.00					
	CUT-Outs, HT Fuse, 100A,36kV, 170kV BIL	pc	1.00					
	Transformer and equipment grounding , on wood	pc	1.00					
	Prim Single Down Guy,(Prefd guy grip and Expanded)	pc	1.00					
	Underbuilt Neutral Attach't Dead- end (Grip & Clevis)	pc	1.00					
	Single X'mer , Hanger, Pole -CLP 10"Ø (10-50kVA)	set	1.00					
	Secondary Attachment on 25'-30' Pole Dead- End	set	1.00					
	Vertical Config., Dead-End , Single Phase	pc	2.00					
	Wire,ACSR, #2 AWG,BARE	M	56.70					
	Wire,CU, #6 AWG,Solid,WP	M	6.00					
	Wire,CU, #2/0 AWG, Stranded,TW	M	12.00					
	Wire,CU, #4/0 AWG, Stranded,TW	M	6.00					
	Clamp, H-LNE,PRTD FOR #6-1/0 & #8-1/0, CU -TAP	set	1.00					
	Connector, SVCE., FOR #4/CU-AL SPT-BLT-TY	set	2.00					
	Connector, CRIMPIT, FOR #2-1/0	pc	2.00					
	Arresters, DIST CLS., 27kVA, Porcelain	set	1.00					
	CUT-Outs, HT Fuse, 100A,27kV, 150kV BIL	set	1.00					
	Fuselink , 3K	pc	1.00					
	Other assorted line hardware and accessories	lot	1.00					
	<b>Sub-Total</b>							
II.	<b>ELECTRICAL WIRINGS UPGRADING</b>							
1.00	<b>Earthworks</b>							
1.02	Structural Excavation	cu.m	3.43					
1.03	Backfilling and Compaction	cu.m	3.43					
1.04	Gravel Bedding G-1	cu.m	0.98					
2.00	<b>Concreting Works (3000 psi)</b>							
	<b>Concrete Pedestal and Foubndation</b>	cu.m	4.63					
2.01	Portland Cement	bag	42.00					

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
2.02	Crushed Gravel 3/4"	cu.m	4.75					
2.03	Washed Sand	cu.m	2.50					
	<b>Sub-total</b>							
3.00	<b>Rebar Works</b>							
	<b>Concrete Pedestal and Foubndation</b>	kg	778.07					
3.01	Deformed Round Bars, Grade 40	kg	778.07					
3.02	G.I. Tie Wire	kg	16.00					
	<b>Sub-total</b>							
4.00	<b>Formworks</b>	sq.m	15.97					
	<b>Concrete Pedestal and Foubndation</b>	sq.m	15.97					
4.01	Coco Lumber	bd.ft	81.60					
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	3.00					
4.04	CWN, Assorted	kg	2.00					
	<b>Sub-total</b>							
5.00	<b>Masonry Works</b>							
	<b>Plastering</b>	sq.m	2.40					
5.02	Portland Cement	bag	1.00					
5.03	Washed Sand	cu.m	1.00					
	<b>Sub-total</b>							
7.00	<b>Steel Works</b>							
7.47	G.I. Pipe 3"Ø Sch.40	pc	11.00					
7.24	Steel Plate 1.20m x 2.40m x 12mm thk	sq.m	0.80					
7.25	Gusset Plate 1.20m x 2.40m x 10mm thk	sq.m	0.60					
7.33	Anchor Bolt with Nuts and Washer, 16mmØ x 50mm x 300mm	pc	60.00					
7.46	Welding Rod	kg	10.00					
	<b>Sub-total</b>							
10.00	<b>Electrical Works</b>							
	<b>Roughing-ins</b>							
10.01	Secondary rack (4 porcelain)	set	10.00					
	U-bolt w/ nuts, 5/16 x 75mm dia	set	20.00					
	U-bolt w/ nuts, 5/16 x 65mm dia	set	4.00					
	Entrance Cap 65mm dia.	set	1.00					
10.37	Grounding Rod, 2.4m x 19mm dia.	set	1.00					
	RSC 65mmØ	pc	1.00					
	<b>Wires &amp; Flxtures</b>							
10.11	14 mm2 THW Wire, Stranded (Ground wire) Free Air	m	466.00					
10.12	80 mm2 THHN Wire, Stranded Free Air	m	932.00					
10.28	MCCB in NEMA 3R Enclosure 200at, 225af, 2p, 240v, 6	pc	1.00					
10.58	Electrical Tape	pc	20.00					
	Rubber tape	roll	10.00					
	Solderless connector, 80mm2	pc	12.00					
	Solderless connector, 14mm2	pc	6.00					
	<b>Sub-total</b>							
I.	<b>DIRECT COST</b>							
II.	<b>INDIRECT COST 22% of (I)</b>							
III.	<b>TAX 5% of (I + II)</b>							
IV.	<b>TOTAL CONSTRUCTION COST (I + II + III)</b>							

Prepared:

Contractor/Authorized Representative