

## PROGRAM OF WORKS

DepEd-Electrification 2018-Region X-Misamis Oriental

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

  

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	10.52		
3	Rebar Works		kg	1,727.09		
4	Formworks		sq.m	36.30		
5	Masonry Works		sq.m	5.45		
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:

\_\_\_\_\_  
 Contractor/Authorized Representative

**PROJECT :** ELECTRIFICATION OF JASAAN NATIONAL HIGH SCHOOL  
**SCHOOL :** JASAAN NATIONAL HIGH SCHOOL  
**LOCATION :** JASAAN, 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 100kva	set	2.00					
	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-wye	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,CrimpIt, for #2-1/0	set	1.00					
	Arresters, DIST CLS., 27kVA, Porcelain	set	2.00					
	CUT-Outs, HT Fuse, 100A,36kV, 170kV BIL	set	2.00					
	Fuselink , 3K	pc	3.00					
	Other assorted line hardwares 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	7.80					
1.03	Backfilling and Compaction	cu.m	7.80					
1.04	Gravel Bedding G-1	cu.m	2.23					
	<b>Sub-total</b>							

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
2.00	Concreting Works (3000 psi)							
	Concrete Pedestal and Foundation	cu.m	10.52					
2.01	Portland Cement	bag	95.00					
2.02	Crushed Gravel 3/4"	cu.m	10.75					
2.03	Washed Sand	cu.m	5.50					
	Sub-total							
3.00	Rebar Works							
	Concrete Pedestal and Foundation	kg	1,727.09					
3.01	Deformed Round Bars, Grade 40	kg	1,727.09					
3.02	G.I. Tie Wire	kg	35.00					
	Sub-total							
4.00	Formworks	sq.m	36.30					
	Concrete Pedestal and Foundation	sq.m	36.30					
4.01	Coco Lumber	bd.ft	185.40					
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	7.00					
4.04	CWN, Assorted	kg	3.00					
	Sub-total							
5.00	Masonry Works							
	Plastering	sq.m	5.45					
5.02	Portland Cement	bag	2.00					
5.03	Washed Sand	cu.m	1.00					
	Sub-total							
7.00	Steel Works							
7.47	G.I. Pipe 3"Ø Sch.40	pc	25.00					
7.24	Steel Plate 1.20m x 2.40m x 12mm thk	sq.m	0.50					
7.25	Gusset Plate 1.20m x 2.40m x 10mm thk	sq.m	0.50					
7.33	Anchor Bolt with Nuts and Washer, 16mmØ x 50mm x 300mm	pc	48.00					
7.46	Welding Rod	kg	20.00					
	Sub-total							
10.00	Electrical Works							
	Roughing-ins							
10.01	Secondary rack (4 porcelain)	set	46.67					
	U-bolt w/ nuts, 5/16 x 75mm dia	set	188.00					
	U-bolt w/ nuts, 5/16 x 100mm dia	set	8.00					
	Entrance Cap 100mm dia.	set	2.00					
10.37	Grounding Rod, 2.4m x 19mm dia.	set	1.00					
	RSC 100mmØ	pc	2.00					
	Wires & Fixtures							
10.11	30 mm2 THW Wire, Stranded (Ground wire)	m	500.00					
10.12	200 mm2 THHN Wire, Stranded	m	1,500.00					
10.28	MCCB in NEMA 3R Enclosure 500at, 600af, 3p, 240v,	pc	1.00					
10.58	Electrical Tape	pc	4.00					
	Rubber tape	roll	10.00					
	Solderless connector, 80mm2	pc	12.00					
	Solderless connector, 14mm2	pc	6.00					
	Sub-total							
I.	DIRECT COST							
II.	INDIRECT COST 22% of (I)							
III.	TAX 5% of (I + II)							
IV.	TOTAL CONSTRUCTION COST (I + II + III)							

Prepared:

Contractor/Authorized Representative