

PROGRAM OF WORKS

DepEd-Electrification 2018-Region X-Misamis Oriental

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

Item I.D.	Item Description	% of Total	Unit	Quantity	Total Cost	Remarks
	I. DIRECT COST					
	General Requirements		lot	1.00		
	Transformer		lot	1.00		
	Electrical Wirings Upgrading					
1	Earthworks		lot	1.00		
2	Concreting Works (3000 psi)		cu.m	9.26		
3	Rebar Works		kg	1,521.23		
4	Formworks		sq.m	31.94		
5	Masonry Works		sq.m	4.79		
7	Steel Works		lot	1.00		
10	Electrical Works		lot	1.00		
	Sub-Total					
	II. INDIRECT COST 22% of (I)					
	Overhead Expenses (8%)					
	Contingencies (3%)					
	Miscellaneous (1%)					
	Contractor's Profit (10%)					
	Sub-Total					
	III. TAX 5%					
	Sub-Total					
	IV. TOTAL CONSTRUCTION COST (I + II + III)					

Prepared:

Contractor/Authorized Representative

PROJECT : ELECTRIFICATION OF NAAWAN NATIONAL HIGH SCHOOL
SCHOOL : NAAWAN NATIONAL 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	
	GENERAL REQUIREMENTS							
	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					
	Sub-total							
I.	TRANSFORMERS							
	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	set	1.00					
	Transformer and equipment grounding , on wood	set	1.00					
	Prim Single Down Guy,(Prefd guy grip and Expanded)	set	1.00					
	Underbuilt Neutral Attach't Dead- end (Grip & Clevis)	set	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	set	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	pc	1.00					
	Connector, SVCE., FOR #4/CU-AL SPT-BLT TY	pc	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 hardwares and accessories	lot	1.00					
	Sub-Total							
	ELECTRICAL WIRINGS UPGRADING							
1.00	Earthworks							
1.02	Structural Excavation	cu.m	6.86					
1.03	Backfilling and Compaction	cu.m	6.86					
1.04	Gravel Bedding G-1	cu.m	1.96					
	Sub-Total							
2.00	Concreting Works (3000 psi)							
	Concrete Pedestal and Foubndation	cu.m	9.26					
2.01	Portland Cement	bag	84.00					
2.02	Crushed Gravel 3/4"	cu.m	9.50					

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
2.03	Washed Sand	cu.m	4.75					
	Sub-total							
3.00	Rebar Works							
	Concrete Pedestal and Foubndation	kg	1,521.23					
3.01	Deformed Round Bars, Grade 40	kg	1,521.23					
3.02	G.I. Tie Wire	kg	31.00					
	Sub-total							
4.00	Formworks	sq.m	31.94					
	Concrete Pedestal and Foubndation	sq.m	31.94					
4.01	Coco Lumber	bd.ft	163.20					
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	6.00					
4.04	CWN, Assorted	kg	3.00					
	Sub-total							
5.00	Masonry Works							
	Plastering	sq.m	4.79					
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	22.00					
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					
	Sub-total							
10.00	Electrical Works							
	Roughing-Ins							
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					
	Wires & Fixtures							
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					
	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