

PROGRAM OF WORKS

DepEd-Electrification2018-Region X-Misamis Oriental

School: MANTICAO NATIONAL HIGH SCHOOL			Date:			
Region: X- NORTHERN MINDANAO			Budget Allocation:			
Division: MISAMIS ORIENTAL			Engineering Administrative Overhead:			
Project Title:			Approved Budget for Contract:			
ELECTRIFICATION OF MANTICAO NATIONAL HIGH SCHOOL			Completion Period:			
			Minimum Required Manpower:			
			General Foreman Electrician Helper			
Plan:			Minimum Required Equipment:			
Location: MANTICAO, MISAMIS ORIENTAL			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	6.31		
3	Rebar Works		kg	1,029.27		
4	Formworks		sq.m	21.78		
5	Masonry Works		sq.m	3.27		
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 MANTICAO NATIONAL HIGH SCHOOL
SCHOOL : MANTICAO NATIONAL HIGH SCHOOL
LOCATION : MANTICAO, 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					
	Hauling cost	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	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					
	Sub-Total							
II.	ELECTRICAL WIRINGS UPGRADING							
1.00	Earthworks							
1.02	Structural Excavation	cu.m	4.68					
1.03	Backfilling and Compaction	cu.m	4.68					
1.04	Gravel Bedding G-1	cu.m	1.34					
	Sub-total							
2.00	Concreting Works (3000 psi)							
	Concrete Pedestal and Foundation	cu.m	6.31					
2.01	Portland Cement	bag	57.00					

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
2.02	Crushed Gravel 3/4"	cu.m	6.50					
2.03	Washed Sand	cu.m	3.25					
	Sub-total							
3.00	Rebar Works							
	Concrete Pedestal and Foubndation	kg	1,029.27					
3.01	Deformed Round Bars, Grade 40	kg	1,029.27					
3.02	G.I. Tie Wire	kg	21.00					
	Sub-total							
4.00	Formworks	sq.m	21.78					
	Concrete Pedestal and Foubndation	sq.m	21.78					
4.01	Coco Lumber	bd.ft	111.30					
4.02	Plywood Ordinary, 1/4" x 4' x 8'	pc	4.00					
4.04	CWN, Assorted	kg	2.00					
	Sub-total							
5.00	Masonry Works							
	Plastering	sq.m	3.27					
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	15.00					
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	470.00					
10.12	80 mm2 THHN Wire, Stranded Free Air	m	940.00					
10.28	MCCB in NEMA 3R Enclosure 200at, 225af, 2p, 240v.	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