

(CONSTRUCTION FIRM'S LETTERHEAD)

PROJECT: ELECTRIFICATION OF UN-ENERGIZED SCHOOLS AND MODERNIZATION OF ELECTRICAL SYSTEMS ON GRID SCHOOLS (BATCH 2)

DIVISION : BAGUIO CITY

SCHOOL : MIL-AN NATIONAL HIGH SCHOOL

LOCATION : LOACAN ROAD, BAGUIO CITY

OWNER : DEPARTMENT OF EDUCATION

SUBJECT : **BILL OF QUANTITIES**

I.D. NO	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	GENERAL REQUIREMENTS	LOT	1.00					
	Mobilization/Utilities and Services/ Demobilization / Standard Billboard	lot	1.00					
	Safety and Health	lot	1.00					
	Fees for the Sign & Seal of Professionals, processing of electrical connections, transformer testing & energization, preparation of Electrical Plans and all necessary documents required by BENECO	lot	1.00					
	Equipments for Engineers, LAPTOP (Operating System : Windows 10 Home Processor : Intel Core i7-7700HQ 2.80GHz Processor (6M Cache, up to 3.80 GHz) Memory : 32GB of DDR4 2133mhz system memory Storage : 256GB SSD + 2 TB HDD Optical Drive Type : 8X DVD-Super Multi double-layer drive Display : 17.3-in display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness ComfyView™ LED-backlit TFT LCD Graphics : NVIDIA® GeForce® GTX 1070 with 8 GB of dedicated GDDR5 VRAM Battery : 8-cell battery pack Operating System)	lot	1.00					
	Sub-total							
B.	SERVICE LINE	LOT	1.00					
	ELECTRICAL WORKS							
	Steel Pullbox, 6"x 6"x 4", with complete accs.	sets	7.00					
	THHN # 10	m	100.00					
	THHN # 8	m	790.00					
	THHN # 6	m	426.00					
	THHN # 3	m	349.00					
	UPVC Pipe 4, S-1000	pcs	61.00					
	UPVC Pipe 2, S-1000	pcs	84.00					
	UPVC Pipe 1, S-1000	pcs	151.00					
	Adhesive Marker(color coded & properly labeled)	set	9.00					
	4"wide Underground Warning Tape	m	175.00					
	Heavy Duty Main Distribution Panel, including circuit breakers & accs.	lot	1.00					
	Misc. (Clamps, PVC Elbow, PVC Cement, etc)	lot	1.00					

	CIVIL WORKS	cu.m.	96.36					
	Removal of Concrete Structures/Obstructions	cu.m.	16.40					
	Excavation	cu.m.	237.80					
	Backfilling & Compaction	cu.m.	44.08					
	Portland Cement	bags	836.00					
	Crushed Gravel, G1	cu.m.	14.20					
	Crushed Gravel, 3/4	cu.m.	96.36					
	Crushed Sand	cu.m.	72.78					
	12mm Diam. RSB	pcs	1,189.00					
	16mm Square Bar	pcs	36.00					
	#16 G.I. Tie Wire	kg	24.00					
	Rough Lumber	bd.f.t	1,517.00					
	Plywood, Ordinary 1/4"x 4'x 8	pcs	35.00					
	ÇWN	kg	38.00					
	Equipments/Tools (10% of labor cost)	lot	1.00					
	Sub-total							
C.	TRANSFORMER	SET	1.00					
	Transformer, Pole Type, 100 KVA, 22.86/13.2kV 240/120V	set	1.00					
	Anchoring Assembly, F2-1	assy	1.00					
	Guying Assembly, E1-2	assy	1.00					
	Grounding Assembly, M2-1A	assy	1.00					
	Miscellaneous Assembly, M5-1(#2/0), M5-6(24KV), M5-9 (23-27 KV,100A), M3-4B(L-TYPE)	assy	1.00					
	PROTECTIVE DEVICES							
	Lightning Arrester, 24Kv, Ohio Brass	pc	1.00					
	Fuse Cut-Out, 23-27Kv, 100 Amps	pc	1.00					
	Fuse Link, 1A	pc	1.00					
	OTHER LINE HARDWARE							
	Bracket Mounting For Fco & La (27Kv)	pc	1.00					
	Conductor Bare Wire, # 4/7 CU	mtrs	6.00					
	Pole, Concrete, 40' (Round)	pc	1.00					
	Pole, Plates	pc	1.00					
	Anchor Log, 5' Std.	pc	1.00					
	Anchor Rod, 5/8" X 7', Single Eye	pc	1.00					
	Bolt Machine, 5/8" X 12"	pcs	4.00					
	Bolt Thimble Eye, 5/8 X 12"	pc	1.00					
	Clamp Guy, 3-Bolt Hd	pcs	2.00					
	Clamp Hot Line #2/0	pc	1.00					
	Ground Rod, 5/8" X 10' Galvanized w/Clamp	pc	1.00					
	Ground Wire, # 5/16 Steel, 3 Strand	mtrs	13.00					
	Guy Wire, 3/8" X 7 Strand	mtrs	13.00					
	Nut, Lock 5/8"	pc	1.00					
	Washer Square, 4" X 4"	pc	1.00					
	Washer, 2 1/4" X 2 1/4"	pc	1.00					
	Connector Compression, YHO 150	pcs	2.00					
	METERING REQUIREMENTS							
	KWHM, 1P, 2W, CL200, 240V, Form1S	set	1.00					
	Meter seal, plastic	pc	2.00					
	Equipments/Tools (10% of labor cost)	lot	1.00					
	Sub-total							

D.	POWERHOUSE	LOT	1.00					
	100 KVA Silent Type Generator Set with complete accs., (specs is for approval of agency engineer before installation)	set	1.00					
	CIVIL WORKS							
	Excavation	cu.m.	4.00					
	Portland Cement	bags	107.00					
	CHB 6"	pcs	525.00					
	G1, Gravel Bed	cu.m.	1.60					
	Crushed Gravel 3/4	cu.m.	8.00					
	Crushed Sand	cu.m.	6.00					
	River Sand (for plastering)	cu.m.	1.00					
	Waterproofing Cement (5kgs/bag)	bags	32.00					
	12mm Diam. RSB	pcs	77.00					
	16mm Square Bar	pcs	27.00					
	#16 G.I. Tie Wire	kg	13.00					
	Steel Door, 0.8 x 2.0m with complete accs.	set	1.00					
	Steel Window, 1.2m x 1.2m with grilles	set	2.00					
	Equipments/Tools (10% of labor cost)	lot	1.00					
	Sub-total							
E.	OTHER DEVICES	LOT	1.00					
	CCTV SYTEM: 24 Camera, 24 Channel DVR, 46" TV Monitor (For approval of specs by the school head before installation)	set	1.00					
	Sub-total							
I.	Direct Cost							
II.	Indirect Cost ____% of (I-Gen Req))							
III.	Tax (5% of I & II)							
IV.	Total Construction Cost (I + II + III)							

Prepared:

(SIGNATURE OVER PRINTED NAME)

Contractor