::: Estimate :::

Installation of 25 M High mast light pole in 60 nos. of ward councilor under GMC

Sl No.	SOR No.	Item	Unit	Rate	Qty.	Amt.
1	23.8	Supplying, erection, testing and commissioning of 25 M high mast system with its accessories such as foundation bolts manufactured from special steel along with nuts, washers, anchor plates and templates, non-integral flood light luminaries with 2 nos 400 W HPSVT lamps and its control gear boxes (Bajaj/ Crompton/ Wipro/ HPL/ Solar/ Philips make) twin dome aviation obstruction lights with Neon spiral lamps, control panel housing 32 A TPN MCB incomer, single dial timer contactor circuit for the automatic control of luminaries, outgoing terminals and control circuit for the power tool motor. Mast shaft shall be in two sections, hot dip galvanised and suitable for wind velocity as per IS 875. It shall also include accessories for high mast including head frame, steel rope 6 mm dia (7 / 19 construction) , trailing cable, double drum winch, Galvanised Lantern carriage arrangement suitable for 9 luminaries symmetrically & its control gear boxes and lightning finial. The mast shall be erected on suitable shallow foundation with 1 : 2 : 4 concrete for the high mast considering the safe soil bearing capacity at site as 10 T / Sq meter at 2 metre depth. The mast shall have an integral power tool installed inside the base compartment for its operation.(BAJAJ/ SRB/VALMONT/ PHILIPS/ PARUTHI ENGR make)				
		Supply of foundation bolts manufactured from special steel along with nuts, washers, anchor plates and templates.				
		Supply of 9 nos. LED flood light luminaries each of 400 W				
		Supply of twin dome aviation obstruction lights with Neon spiral lamps.				
		Supply of control panel housing 32 A TPN MCB incomer, single dial timer contactor circuit for the automatic control of luminaries, outgoing terminals and control circuit for the power tool motor.				
		Construction of suitable shallow foundation with 1 : 2 : 4 concrete for the high mast considering the safe soil bearing capacity at site as 10 T / Sq meter at 2 metre depth with all materials and labour.				
		Erection of the high mast with the help of suitable equipments and Wiring of luminaries with all Wiring materials and labour.				

		provision of GI pipe earthing for high mast with 2.5 m long 40 mm dia GI pipe including connection as approved by the Deptt. to high mast terminal with 25 x 3 mm GI strip with all materials and labour. (2 nos per mast require).				
		Erection of the above panel on suitable foundation including all materials and labour.	Each	731559.00	1	731,559.00
		Supplying, Fabrication, Erection , Testing commissioning of vermin and dust proof (IP-43 protection) totally enclosed cubical type compartmental floor mounting panel board of size 1700mm x 1000mm x 500mm made of 16 SWG (1.66mm thick) C.R. sheet and 300mm x 30mmx5mm MS Angle having 4 nos legs at the bottom and C.R. sheet roofing on the top complete with 2 coats of Red Oxide metal primer and painting with powder coated paint. The panel board is to be erected in 1 :3:6 PCC foundation including excavation complete neatly wiring done, with the provision for the following electrical accessories. Provision for 400 A 4Pole 50KA 415V MCCB with rotary handle INCOMING. Provision for 7 nos 4pole MCCB OUTGOING.				
		0-500V Voltmeter (Digital)				
		0-400 A Ammeter (Digital)				
		Voltmeter S/S in 3 position				
		Ammeter S/S in 3 position				
		Indicator Lamp (R,Y, B)				
		2A Slide Lock Fuse				
		400/5 C.T. Coil				
		Control Wiring along with required size of copper bus bar				
		(Incoming and Outgoing MCCB/MCB will be paid extra)	Each	96488.00	1	96,488.00
2	32.1	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV Grade Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make or equivalent) .				
3	32.1.3	32.1.3: 3 & 1/2 Core A2XFY				
4	32.1.3.1	25.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	468.00	533	249,444.00

5	32.1.2.4	16.00 Sq.mm 3 Core armoured U.G. cable	Metre	382.00	102	38,964.00
6	22.12	Extra for using salt 5 Kg and Charcoal 64 Kg in pipe Earth Station pit to provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2804.00	4	11,216.00
7	22.16	Supplying & laying of 8 SWG Copper. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.	Metre.	104.00	29	3,016.00
					Total	1,130,687.00
					deduct 5% VAT	56,534.35
					Amount after VAT deduction	1,074,152.65
					Add 18% GST	193,347.48
					Grand total	1,267,500.13
	Non Scheduled item					
8	Load Security, Meter security and APDCL estimated amount for contingency such as affidavit, load sanction		KW	6500	5	32,500.00
					Total amount	1,300,000.13
					Round Off=	1,300,000.00
	(Rupees Thirteen Lakhs Only)					

Sd/-
Technical officer
Guwahati Utilities Company Limited
Ganeshguri, Guwahati- 06

Sd/-
Superintending Engineer
Guwahati Utilities Company Limited
Ganeshguri, Guwahati- 06