

INDIAN INSTITUTE OF TECHNOLOGY KANPUR
Dean of Infrastructure & Planning

NIT No.- QT/16-05-2024-02

N/W Providing three phase power supply with three phase energy meter for New HDFC bank branch and 2 nos. single phase to provide in Hall-15 shops at IIT Kanpur

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S.No	Description	Qty	Unit	Estimated Rate without GST (Rs)	Estimated Amount without GST (Rs)	Quoted Rate without GST (Rs)	Quoted Amount without GST (Rs)
1	Supplying & drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as reqd.						
2	2 x 1.5 Sq.mm.	10.00	Mtr.	61.38	613.77		
3	4 x 10 Sq.mm.	1.00	Mtr.	560.28	560.28		
4	Laying of one no. PVC insulated and PVC sheathed /XLPE power cable (Size Upto 35 sq. mm) of 1.1kV grade of following place etc. as reqd.						

5	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	38.00	Mtr.	339.32	12894.34		
6	In pipe	3.00	Mtr.	32.44	97.33		
7	In open duct	8.00	Mtr.	24.55	196.41		
8	On surface with MS clamp	11.00	Mtr.	48.22	530.47		
9	Supplying and making indoor end termination with brass compression gland, aluminum lugs for following size of PVC insulated & PVC sheathed/XLPE aluminum cable of 1.1kV grade as reqd.						
10	3½ X 35 sq. mm (32mm)	2.00	Nos.	323.54	647.08		
11	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required						
12	50 mm	3.00	Mtr.	573.61	1720.82		
13	Supplying, installation, testing & commissioning of 10 - 60 Amp. Digital type 3 phase 4 wire 50 hz, Energy Prepaid/Post-paid meter with LCD display for dual register meter type, 10 - 60 Amp, class 1.0 Accuracy as per IS: 13779 with RS-485 communication port suitable for prepaid metering, with cut-off system with Line/load manager & interface for online monitoring with including AMR	1.00	Nos.	7310.83	7310.83		

	(Automatic Meter Reading) software Data base integration software capable of communication with each Data Acquisition Hub to collect Data of each meter & generating an approved format electricity bill & centralized control with low voltage & high voltage protection. The software shall have the capability to take in to account the dual tariff (Grid supply & DG supply) the software shall be compatible with windows based operating system Display all energy parameters like KWH & KVAH, Load setting, phase wire KW/KVA & Cumulative KW/KVA, phase wise voltage/ current/ frequency etc as per standard. Meter Size 225*176*76 base mounting i/c dismantling of old existing meter and deposited the same safely in departmental store complete as reqd.						
14	Supplying, installation, testing & commissioning of 10 - 60 Amp. Digital type Single phase 2 wire 50 hz, Energy Prepaid/Post-paid meter with LCD display for dual register meter type, 10 - 60 Amp, class 1.0 Accuracy as per IS: 13779 with RS485 communication port suitable for prepaid metering, with cut-off system with Line/load manager & interface for online monitoring with including AMR (Automatic Meter Reading) software Data base integration software capable of communication with each Data Acquisition Hub to collect Data of each meter & generating an approved format electricity bill & centralized control with low voltage & high voltage protection. The software shall have the	2.00	Nos.	5493.20	10986.41		

	capability to take in to account the dual tariff (Grid supply & DG supply) the software shall be compatible with windows-based operating system. Display all energy parameters like KWH & KVAH, Load setting, phase wire KW/KVA & Cumulative KW/KVA, phase wise voltage/ current/ frequency as per standard. Meter Size 225*176*0 base mounting. i/c dismantling of old existing meter and deposit the same safely in departmental store complete as reqd.						
15	Supplying of one no. XLPE cable aluminum conductor steel armoured power cable of 1.1kV grade of size 3½x35 sq.mm. complete as required.	60.00	Mtr.	221.61	13296.80		
16	S/F grouting in recess/surface MS box made of 16-gauge sheet for fixing of 3ph/1 ph energy meter almirah type hinged door cover front openable locking arrangement 5"x5" glass window and MS grill for meter reading purpose, suitable size of bakelite sheet 6mm thick shall also be provided in the MS box for fixing of energy meter i/c earthing stud & painting etc. as reqd.	3.00	Nos.	1730.82	5192.46		
17	Providing and fixing following sizes of PVC casing and capping on surface as reqd.						
18	25 x 16 mm	10.00	Mtr.	84.17	841.74		
19	Supplying and fixing 40 amp to 63 amp rating 240 volts 'C' curve 10 kA MCB of following pole in the						

	existing MCB DB complete with connection, testing & commissioning etc as reqd.						
20	Triple Pole	1.00	Nos.	2428.76	2428.76		
		Estimated Amount (A) =			Rs. 57,317/-	Quoted Amount (B) =	Rs.
		Percentage (%) = $\frac{B-A}{A} \times 100$					



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