

INDIAN INSTITUTE OF TECHNOLOGY KANPUR



Tender Notice No. 44/Elect/2020

SCHEDULE OF QUANTITY

Name of Work: Providing external power to air -conditioning system installed at construction of Pre-Engineered building near Hanger Air strip.

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Supplying and fixing testing and commissioning of 16 gauge powder coated LT Panel out door mountable (IP-65), lockable door, of suitable size with Incoming-630A 4P 35kA MCCB with microprocessor based release with O/C,S/C, earth fault protection 1No. as incomer, metering indication lamps- R-Y-B phase-1Set, indication On/Off lamps-1Set, Digital Multi fuction meter(M9)-1Nos., CT's for meter-3Nos.,control MCB-4Nos, BusBar- 800 A 4 strip Aluminium and Outgoing- 4 nos 250A FP 35kA MCCB with Microprocessor based release with O/C,S/C, earth fault protection, indication Lampst-On/Off-4Set, Digital V/F meter-4Nos, CT's for metering-12Nos, control MCB-16Nos as outgoing mounted inside on suitable bakelite sheet, internal wiring etc. as required complete.	1.00	Nos.		
2	Supplying & layuig of one no. XLPE sheathed aluminum conductor steel armoured power cable of size 3-1/2x400 sq.mm. 1.1kV grade in following manner.				
a)	Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	315.00	Mtr.		
b)	Additional cable Laying in same trench	315.00	Mtr.		
c)	In pipe	80.00	Mtr.		
d)	In open duct	60.00	Mtr.		
3	Supplying & laying of one no. XLPE sheathed aluminum conductor steel armoured power cable of size 3-1/2x240 sq.mm. 1.1kV grade in following manner.				
a)	Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	150.00	Mtr.		
b)	In pipe	20.00	Mtr.		

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c)	In open duct	20.00	Mtr.		
d)	In surface	90.00	Mtr.		
4	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.				
a)	3-1/2x 400 sq.mm.	4.00	Nos.		
b)	3-1/2x 240 sq.mm.	6.00	Nos.		
5	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				
a)	100 mm dia	80.00	Mtr.		
6	Supplying & drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as reqd.				
a)	3 x 1.5 Sq.mm..	550.00	Mtr.		
7	S & F of following size of steel conduit along with the accessories in surface/recess I/c painting in case of surface conduit or cutting the wall and making good the same in case of recessed conduit. as reqd.				
a)	20 mm	300.00	Mtr.		
b)	25 mm	200.00	Mtr.		
8	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
a)	3 module	50.00	Nos.		
9	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required				
a)	125 Amp 36 kA FP	3.00	Nos.		

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b)	630 A,50KA,FPMCCB	1.00	Nos.		
10	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
a)	8-way , Double door	6.00	Nos.		
11	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN distribution board IP 43 with metal door with provision 4pole MCCB upto 250A as incomer with three phase and single phase (TP/SP) outgoing, completed with insulated busbar arrangement as required .				
a)	8 way (250A Tmax XT3+24), Double door	3.00	Nos.		
12	Supplying and fixing following rating 240 volts 'C' curve 10 kA MCB in the existing MCB DB complete with connection, testing & commissioning etc as reqd. (legrand)				
a)	Single Pole (5 amps to 32 amps)	84.00	Nos.		
b)	Double pole (40 amps to 63 amps)	6.00	Nos.		
c)	Triple Pole (40 amps to 63 amps)	12.00	Nos.		
d)	Triple Pole & Neutral (40 amps to 63 amps)	12.00	Nos.		
13	S&F single pole blanking plates in existing MCB DB complete etc. as required.	5.00	Nos.		
14	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required	6.00	Nos.		
15	S & F metal enclosure suitable for DP/TPN MCB / DP ELCB on surface or recessed etc as reqd.	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
16	Earthing with GI earth electrode 50mm dia x 3 mtr length including earth enhancing compound (Jam Fill quality product) and PIT cover for earthing pit etc as reqd. (193GI JMV)	6.00	Nos.		
17	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	150.00	Mtr.		
18	Supply, fixing, following modular type switch / socket on existing modular plate & switch box including connectins but excluding modular plate etc. as reqd.				
a)	5/6 Amp switch	50.00	Nos.		
b)	3 Pin 5/6 Amp. socket outlet	50.00	Nos.		
	Total Rs.				