

INDIAN INSTITUTE OF TECHNOLOGY KANPUR



Tender Notice No. 139 /Elect/2020

SCHEDULE OF QUANTITY

Name of Work: Construction of International GNSS Service station at Flight Lab (SH: Electrical works).

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
a	Group 'C'	25.00	Nos.		
2	Supplying and 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	75.00	Mtr		
b	3 X 2.5 Sq.mm	100.00	Mtr		
c	3 x 4 Sq.mm	75.00	Mtr		
d	6 x 6 sq. mm	10.00	Mtr		
e	3 X 10 Sq.mm	2.00	Mtr		
3	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including 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	50.00	Mtr		
b	25 mm	150.00	Mtr		
c	32 mm	5.00	Mtr		
4	Supplying and fixing following of size/modules, GI box along with modular base & cover plate for modular switches in recess etc as reqd.				
a	3 module (100mm x 75mm)	10.00	Nos.		

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b	6 module (200mm x 75mm)	15.00	Nos.		
5	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)				
a	4 way (4 + 12), Double door	2.00	Nos.		
6	Supplying and fixing following rating, 240 volts, 'C' series, minature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
a	Single Pole (5 Amp to 32 Amp)	14.00	Nos.		
b	Double Pole (5 Amp to 32 Amp)	1.00	Nos.		
c	Tripple Pole (5 Amp to 32 Amp)	2.00	Nos.		
d	Four Pole (5 Amp to 32 Amp)	2.00	Nos.		
e	Tripple pole (40 Amp to 63 Amp)	1.00	Nos.		
f	Four Pole (40 Amp to 63 Amp)	2.00	Nos.		
7	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth metal enclosed plug top along with 20 amps ' C ' series SP, MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the soc	4.00	Nos.		
8	Providing and fixing following rating and breaking capacity Four pole 415V 50Hz MCCB with rotary drive handle kit complete in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc as required.				
a	125 Amp, 25 KA	1.00	Nos.		
9	S&F connecting and commissioning indipendent mounting of MCCB enclosure suitable upto 250 amp MCCB as per approved make in surface/recess I/c cutting the wall and making good the same in case of recessed as per approved make etc as reqd.	1.00	Nos.		

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10	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)	4.00	Set		
11	Providing & fixing 25mm x 5mm GI strip on surface or in recessd for connection etc. as reqd.	35.00	Mtr		
12	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	25.00	Mtr.		
13	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	1.00	Nos.		
b	Internal angle/ External angle	2.00	Nos.		
c	Changeable flat angle	2.00	Nos.		
14	Supplying and fixing following modular switch/socket on the existing modular plate & switch box/ DLP plastic trunking including connections but excluding modular plate etc as reqd.				
a	5/6 amps switch	30.00	Nos.		
b	15/16 amps switch	10.00	Nos.		
c	3 pin 5/6 amps socket outlet	30.00	Nos.		
d	6 pin 15/16 amps socket outlet	10.00	Nos.		
e	Blanking Plate	2.00	Nos.		
15	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	4.00	Nos.		
16	S/F, connecting, testing and commissioning 34/35/36 watt LED recess mounted luminaires with diffuser suitable for 600 mm X 600 mm moduler POP/Gypsem ceiling etc.as reqd.	4.00	Nos.		
17	S/F, connecting, testing and commissioning 4 feet long 40/36 watt LED fitting with diffuser surface mounting/ ceiling suspeded luminairesalongwith suspended kit make Crompton cat no. LCTSN-40-CDL(1X4) or its equivalent approved make.	4.00	Nos.		

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18	S/F, connecting, testing and commissioning 18 watt LED surface mounted luminaires with diffuser etc.as reqd.	6.00	Nos.		
19	Supply & fixing of 7/9 watt wall mounted LED mirror light fitting etc.as reqd.	2.00	Nos		
20	Supply, Installation, testing & commissioning of Ceiling fan of following 220 volts 50 Hz without regulator I/c wiring the down rods of standard length up to 30 cm with 1.5 sqmm PVC insulated copper conductor single core cable etc as reqd.				
a	1200 mm sweep	4.00	Nos		
21	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	15.00	Nos.		
22	Drawing of computer network cable/ PVC insulated flexible cooper/ Aluminium single core cable of size 1.5sqmm to 25 sqmm/ telephone cable upto 10 pair in existing pipe / casing and capping as reqd including numbering the wires at both the ends.	350.00	Mtr.		
23	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x35 sqmm 1.1kV grade .				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	70.00	Mtr.		
b	In open duct	5.00	Mtr.		
24	Supply & laying of one no. PVC insulated and PVC sheathed aluminium conductor steel armoured cable of size 3-1/2 x 95 Sqmm grade 1.1 kV as reqd.				
a	In existing open duct.	10.00	Mtr.		
b	In existing pipe by HDD machines.	415.00	Mtr.		
25	Supplying and making end termination with brass compression gland with aluminium lugs for following size of PVC insulated & PVC sheathed/XLPE aluminium cable of 1.1kV grade as reqd.				
a	3-1/2x35 sqmm	2.00	Nos.		
b	3-1/2x95 sqmm	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
26	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	3.00	Nos.		
27	Supply & Laying of 32 mm (8Kg / cm ²) HDPE pipe ISI mark of 2mm thick I/c cartage loading & unloading etc. as reqd.				
a	Laying in ground by HDD machines	450.00	Mtr.		
28	Supply & Laying of 63 mm (8Kg / cm ²) HDPE pipe ISI mark of 2mm thick I/c cartage loading & unloading etc. as reqd.				
a	Laying in ground by HDD machines	415.00	Mtr.		
29	Laying of Fiber optical cable in the existing 32 mm dia HDPE pipe by HDD machines as required.	450.00	Mtr.		
30	Supply,Installation of exhaust fan 220 volt, 50 Hz of following sizes in the existing opening I/c connection, testing, commissioning etc as reqd.				
a	375 mm	3.00	Nos.		
31	S/F, Exhaust fan shutter of following sizes on rag bolts as reqd.				
a	375 mm	3.00	Nos.		
32	Supplying and fixing, 25 Watt LED street light luminaries with pressure die cast aluminium housing IP66 complete with all accessories complete	3.00	Nos.		
33	Supplying and fixing of 32 mm dia X 2.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, b	3.00	Nos.		
34	S/F, copper cable socket suitable for following size of conductor.				
a	10 Sqmm	12.00	Nos.		
35	Fixing of telephone DP/network rack (HUB) on wall floor with suitable brick foundation on bolts and nut etc. as reqd.	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
	TOTAL Rs.				