

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 35 /Elect./2019****SCHEDULE OF QUANTITY****Name of Work: Construction of 3 rooms near Biodiesel plant (SH: Electrical works).****Name of the Contractor**

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. FR PVC insulated copper conductor single core cable etc as required.				
a	Group C	45.00	Point		
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	30.00	Mtr		
b	3 X 2.5 Sq.mm	100.00	Mtr		
c	3 x 4 Sq.mm	80.00	Mtr		
d	3 x 10 Sqmm	25.00	Mtr.		
e	6 x 10 Sqmm	10.00	Mtr.		
f	6 x 16 Sqmm	5.00	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	20.00	Mtr		
b	25 mm	40.00	Mtr		
c	32 mm	10.00	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.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	3 module (100mm x 75mm)	2.00	Nos.		
b	4 module (125mm x 75mm)	1.00	Nos.		
c	6 module (200mm x 75mm)	4.00	Nos.		
d	8 module (125mm x 125mm)	1.00	Nos.		
e	12 module (200mm x 150mm)	1.00	Nos.		
5	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	12 Way, double door	1.00	Nos.		
6	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	8 way ( 4 + 24 ), Double door	1.00	Nos.		
7	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a	4 way (4 + 12) Double door	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
8	S & F following rating and pole, 240 volts 'C' curve 10 kA, lexic MCB of following pole in the existing MCB DB complete with connection, testing & commissioning etc as reqd.				
a	Single Pole ( 5 Amp to 32 Amp )	30.00	Nos.		
b	Double Pole ( 5 Amp to 32 Amp )	1.00	Nos.		
c	Tripple Pole ( 5 Amp to 32 Amp )	1.00	Nos.		
d	Four Pole ( 5 Amp to 32 Amp )	1.00	Nos.		
e	Single Pole ( 40 Amp to 63 Amp )	2.00	Nos.		
f	Double Pole ( 40 Amp to 63 Amp )	1.00	Nos.		
g	Tripple pole ( 40 Amp to 63 Amp )	3.00	Nos.		
h	Four Pole ( 40 Amp to 63 Amp )	2.00	Nos.		
9	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	3.00	Nos.		
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)	2.00	Set		
11	Providing & fixing 25mm x 5mm GI strip on surface or in recessd for connection etc. as reqd.	20.00	Mtr		
12	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	20.00	Mtr.		
13	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	2.00	Nos.		
b	Internal angle/ External angle	4.00	Nos.		
c	Changeable flat angle	2.00	Nos.		
d	Flat Junction	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
14	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	30.00	Mtr.		
15	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	30.00	Mtr.		
16	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				
a	End cap	2.00	Nos.		
b	Internal angle.	4.00	Nos.		
c	External angle	2.00	Nos.		
d	Flat Junction	1.00	Nos.		
e	Changeable flat angle	1.00	Nos.		
f	Separation partitions	30.00	Mtr.		
g	cover joint	6.00	Nos.		
h	Base joint	12.00	Nos.		
17	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	27.00	Nos.		
b	15/16 amps switch	10.00	Nos.		
c	3 pin 5/6 amps socket outlet	27.00	Nos.		
d	6 pin 15/16 amps socket outlet	10.00	Nos.		
e	Blanking Plate	1.00	Nos.		
18	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	3 Module	9.00	Nos.		
b	6 Module	9.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
19	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	3.00	Nos.		
20	S/F, connecting, testing and commissioning 4 feet long 40 watt LED fitting with diffuser surface mounting/ceiling suspended luminaires make Havells STOUT PLUS cat no. STOUTPLUS1200BS40WLED or its equivalent approved make.	16.00	Nos.		
21	S/F, connecting, testing and commissioning 18 watt LED recess mounted luminaires with diffuser suitable for modular ceiling/POP/Gypsem ceiling etc.as reqd.	4.00	Nos.		
22	S/F, connecting, testing and commissioning 18 watt LED surface mounted luminaires with diffuser etc.as reqd.	1.00	Nos.		
23	S/F, connecting, testing and commissioning 34/35/36 watt LED recess mounted luminaires with PMMA diffuser suitable for modular ceiling etc.as reqd.	16.00	Nos.		
24	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	7.00	Nos.		
25	Drawing of computer network cable in existing pipe / casing and capping as reqd including numbering the wires at both the ends.	400.00	Mtr.		
26	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	9.00	Nos.		
27	Supply & Laying of 40 mm (6Kg / cm <sup>2</sup> ) HDPE pipe ISI mark of 2mm thick I/c cartage loading & unloading etc. as reqd.				
a	In ground i/c excavation sand cushioning protective covering, refilling of eath as reqd.	10.00	Mtr.		
b	In existing open duct.	10.00	Mtr.		
28	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	5.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	25 mm	10.00	Mtr.		
c	32 mm	5.00	Mtr.		
29	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x240 sqmm 1.1kV grade .				
a	In ground i/c excavation sand cushioning protective covering, refilling of earth as reqd.	330.00	Mtr.		
b	In pipe	30.00	Mtr.		
c	In open duct	20.00	Mtr.		
30	Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Above Above 95 sq. mm and upto 185 sq. mm				
a	Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	15.00	Mtr.		
c	In pipe	10.00	Mtr.		
d	In open duct	5.00	Mtr.		
31	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	3-1/2x 240 sqmm	2.00	Nos.		
32	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	80 mm	30.00	Mtr.		
	<b>Total Rs.</b>				