

**INDIAN INSTITUTE OF INTEGRATIVE MEDICINE (IIM), JAMMU**  
(COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH)

**NAME OF WORK: Proposal for setting TBI Cubical facility near cGMP Plant at (IIM),  
Jammu (Electrical work)**

**SCHEDULE OF QUANTITIES**

S.N.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
1.	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular type switch, phenolic laminated sheet, suitable size G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group C	61.00	Point		
2.	Wiring in existing conduit: Supply and drawing following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed steel/ PVC conduit as required				
A	2 x 1.5 sq.mm + 1 x 1.5 sq. mm earth wire	62.00	Mtr.		
B	2 x 2.5 sq.mm + 1 x 2.5 sq. mm earth wire	102.00	Mtr.		
C	2 x 4.0 sq.mm + 1 x 4.0 sq. mm earth wire	450.00	Mtr.		
D	2 x 6.0 sq.mm + 1 x 6.0 sq. mm earth wire	160.00	Mtr.		
E	2 x 10.0 sq.mm + 1 x 10.0 sq. mm earth wire	70.00	Mtr.		
F	1 x 1.0 sqmm (Earth Wire)	280.00	Mtr.		
3.	Providing and fixing plain 16/0.20 mm (0.50 sq.mm) twin flat flexible, FRLS PVC insulated, copper conductor cable, in PVC sleeve of suitable size on the floor/ wall, or side of the table/ door etc. as required. Twin Flat	160.00	Mtr.		

4.	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
A	20mm (2mm thick)	80.00	Mtr.		
B	25 mm (2mm thick)	170.00	Mtr.		
C	40 mm (2mm thick)	75.00	Mtr.		
5.	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
A	1 or 2 Module (75 mmX75 mm)	10.00	Nos.		
B	3 Module (100 mmX75 mm)	30.00	Nos.		
C	4 Module (125 mmX75 mm)	14.00	Nos.		
D	6 Module (200 mmX75 mm)	8.00	Nos.		
6.	Supplying and fixing following modular switch/ socket on the existing modular plate & Switch box/ cover including connections but existing modular plate etc. as required.				
A	5/6 amps switch	35.00	Nos.		
B	15/16 amps switch	30.00	Nos.		
C	3 pin 5/6 amps socket outlet	30.00	Nos.		
D	6 pin15/16 amps socket outlet	30.00	Nos.		
E	Telephone Socket Outlet	5.00	Nos.		

7.	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	33.00	Nos.		
8.	Supplying and drawing of UTP 4 p air CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.	250.00	Nos.		
9.	Supplying and fixing following way, single pole and neutral, sheetsteel, 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	3.00	Nos.		
B	12 Way Double door	3.00	Nos.		
C	16 Way Double door	2.00	Nos.		
10.	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 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) 8 way (4 + 24), Double door	2.00	Each		
11.	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, “C”curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections,testing and commissioning etc. as required.				
A	Single pole	25.00	Nos.		

B	Single pole and neutral	12.00	Nos.		
C	Double pole	8.00	Nos.		
D	Triple pole	8.00	Nos.		
E	Triple Pole and Neutral	3.00	Nos.		
12.	Providing and fixing following rating and breaking capacity and pole MCCB with thermo magnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. 125 Amp, 36 KA, FPMCCB(Four Pole)	2.00	Nos.		
13.	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	1.00	Nos.		
14.	Supplying and laying 25 mm X 5 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm)	15.00	Mtr.		
15.	Supplying and fixing of 2x2 recess mounted LED fixture with 25-30 watts lamp	28.00	Each		
16.	Supplying and fixing of wall mountain fan 16"	21.00	Each		
17.	Supplying and fixing of Exhaust fan 10 inches with Louvers	2.00	Each		

18.	Supplying and fixing of 4 feet LED light 20 watt	9.00	Each		
19.	Supplying, installing on wall, testing and commissioning of following capacity rising mains 200 A, Isc = 15 kA for 1 second made of 1.6mm thick IP 42 sheet steel enclosure duly painted with powder coating, wall straps, fully PVC insulated 4 Nos. aluminum bus bars suitable for 415 V, 3 phase, 4 wire, 50 Hz, A.C. Supplying conforming to IS 8623, TEC 439)	2.00	Each		
20.	Supplying and fixing of 63 amps TPN	4.00	Each		
21.	Supplying and fixing of 40 amps DP	11.00	Each		
22.	MCB box Cover	11.00	Each		

**Note:**

**Rates shall be quoted in figures and words both for each item. Calculation of the amount of each item and total cost shall be written by the contractor in BOQ of the tender document clearly, failing which tender may be rejected.**

Signature of Contractor

## **LIST OF APPROVED MAKES ( ELECTRICALS WORKS)**

<b>S.No</b>	<b>Materials</b>	<b>Approved Make / Manufactures</b>
1	Flexible Copper wires	Finolex/ Havell's/ Polycab wires / ABB
2	Switch & Sockets	Legrand/ Anchor/ Havells
3	Distribution board	Legrand/ Hager/ Havell's/Scinder
4	MCCB, MCB, RCCB	Legrand/ Hager/ Havell's/ L&T.
5	Lugs	Dowells
6	Casing capping/Conduit	Berlia/ Polypack/ Pestoplast/ Richa / Setia (2 mm Thickness)
7	Cable gland	Commet
8	Exhaust fan	Bajaj/ Crompton Greaves/ Havells/ Usha/Orient
9	Lighting fixture	Phillips/ Bajaj/ Crompton Greaves/Havells/Wipro
10	Ceiling fan	Bajaj/ Crompton Greaves/ Havells/ Usha/Orient
11	BUS BARS / Panels	CPRI Approved( Havells, HPL, Legrand)
12	Cables	Armoured/ Havells / Polycab/ Khaitan (IS Approved)

Note :-

- 1.0 Choice of selection materials to be used in work out of the approved list shall remain with Engineer of the work.
  
- 2.0 The work shall be carried out strictly according to lasted CPWD Specification and in confirmation to I. E. rules.

Signature of Contractor