

Schedule of work

Name of work: Miscellaneous electrical modification work in different location of IACS, Jadavpur.

SI No.	Item description	Quantity	Unit	Rate	Amount
1	Re-Fabricating & Installation of existing compartmentalized outdoor type feeder pillar box, with the following additions. (feeder pillar box shall be supplied by IACS)	1	set		
	a) Fabrication of Bottom plate & bottom gland plate made up with 14 SWG CRCA sheet.				
	b) fabrication of Feeder panel mounting stand made up with 50 mm X 50 mm X 6 mm & 75 mm X 40 mm X 6 mm angle iron and C-channel. (Stand height - 750 mm)				
	c) supply and fixing of annodized EC grade Copper busbars (size: 50 mm X 6 mm X 600 mm - 3 nos & 25 mm X 6 mm X 600 mm. - 1 no. along with all power & control terminals including wiring the terminals with copper bars of suitable size for fixing the MCCBs. This job includes supply & fixing of "Danger plate" (200mm X 150mm) as per the relevent prvision of IE Rule.				
	d) The whole panel assembly shall be properly de-greased, phosphated and painted with powder coated paint by seven tank method, as per IS 13871 (1993).				
	e) Fixing of MCB/MCCBs inside the feeder pillar box with necessary terminal spreader, FRLS PVC insulated flexible copper wires, metering and control wiring etc., as required.				
	Make: <u>MCCB/MCB</u> : ABB/L&T/Legrand/Hager/Siemens. Wires: Finolex, Polycab, Gloster, KEI, Havells.				
2	Supplying of 4 core 16 sq.mm PVC sheathed/XLPE insulated armoured aluminium power cable of 1.1 KV grade as per IS : 7098 (part-1) 1988 etc. as required.	30	Meters		
3	Supplying of 3.5 core 185 sq.mm PVC sheathed/XLPE insulated armoured aluminium power cable of 1.1 KV grade as per IS : 7098 (part-1) 1988 etc. as required.	30	Meters		
	Make : Polycab, Gloster, KEI, Havells.				
4	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a)	16 SQ.MM (Clamped with 1 mm thick saddle.)	30	Metre.		
b)	185 SQ.MM (Clamped with 25 X 3 MS flat clamp)	30	Metre.		
5	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)	4 core 16 sq.mm.	4	Each		
b)	3.5 core 400 Sq.mm	1	Each		
c)	3.5 core 185 Sq.mm	4	Each		
6	Supplying and fixing following ways surface /recess mounted vertical type, 415V, TPN MCB distribution board, of sheet steel, dust protected, powder painted, inclusive of 200A tinned copper bus-bar, common neutral link, earth bar, din bar for mounting MCBs				
a)	4 way (4+12), double door	2	No.		
	Make: Legrand/L&T/ABB/C&S/Havells				

SI No.	Item description	Quantity	Unit	Rate	Amount
7	Supplying and fixing 5 A to 32 A rating, 240 / 415 V, 10 kA, '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)	Four Pole - 32 A MCB	2	Each		
b)	Four pole - 63 A MCB	4	Each		
c)	Tripple Pole-32 A MCB	4	Each		
d)	Single pole -16 A MCB	12	Each		
	Make: Legrand/L&T/ABB/C&S/Havells				
8	Earthing with GI earth pipe 4.5 meter long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with supplying of salt, charcoal etc., as required.	4	sets		
9	Supplying and laying of 25X5 mm GI strip at 0.50 meter below ground as strip earth electrode including connection/termination with GI nut bolt and spring washer etc., as required	30	Meter		
10	Providing & fixing 6 SWG dia GI wire on surface or in recess for loop earthing alongwith existing surface/recess conduit/submain wiring, as required.	120	meter		
11	Supplying & fixing of following rating, breaking capacity, thermomagnetic release MCCB, suitable for motor starter application, with terminal spreader in existing panel board including drilling holes in the panel, making connection etc. complete as required.				
a)	400A, 35 KA, 4-pole	1	No.		
b)	250A, 25KA, 4-pole	2	No.		
c)	100A, 25KA, 4-pole	3	No.		
d)	63A, 25KA, 4-pole	6	No.		
	Make: Legrand/L&T/ABB/C&S/Havells				
12	Supply and laying of electrical insulating Class-B rubber earth mat with minimum thickness 2.5mm, suitable for voltage level upto 11KV as per IS 15652:2006	30	Meter		
				Total	
Rupees.....Only					
NOTE: The quoted rate shall be inclusive of all taxes & duties, levies, cess etc i/c GST also. Nothing extra will be paid to the Contractor except the accepted rate.					
GST No:					
HSN/SAC code:					
CGST@ 9% considered in the above BOQ					
SGST@ 9%Considered in the above BOQ					