

Schedule of work

Name of Work: Electrical renovation of Material science Laboratory, located in the ground floor of CCRES Building of IACS, Jadavpur.

Sl. No.	Description.	Quantity	Unit	Rate(Rs.)	Amount (Rs.)
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 medium class PVC 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.				
	Group C (as per CPWD categorization)	24	No.		
	Make: wire: Finolex, polycab, KEI, Havells Conduit : Plaza/ presto/AKG/ precession				
2	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor,single core cable in surface/recessed medium class PVC conduit as required.				
a)	2X1.5 sq.mm.+1X1.5 sq.mm. earth wire.	195	Mtrs.		
b)	2X4 sq.mm.+1X4 sq.mm. earth wire.	690	Mtrs.		
	Make: wire: Finolex, polycab, KEI, Havells Conduit : Plaza/ presto /AKG / precession				
3	Supplying and laying of following size/modules GI box along with modular base & cover plate for modular switches in recess/surface etc. as required.				
a)	2 Modules (75mmX75mm)	14	Nos.		
b)	6 Modules (200 mm x 75 mm)	36	Nos.		
c)	12 Modules (200 mm x 150 mm)	22	Nos.		
	Make: Crabtree/MK/Legrand/L&T/Havells				
4	Supplying and fixing of following modular switch/socket on existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a)	5/6 A switch.	60	Nos.		
b)	3 pin 5/6 A socket outlet	60	Nos.		
c)	15/16 Amp switch.	78	Nos.		
d)	6 pin 15/16 Amp socket outlet.	78	Nos.		
e)	Telephone socket outlet.	2	No.		
	Make: Crabtree/MK/Legrand/L&T/Havells				
5	Supplying and fixing of modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	66	Each		
6	Supplying and drawing following pair 0.5 mm dia FR PVC insulated annealed copper conductor un-armoured telephone cable in the existing surface/recess steel/PVC conduit as required.				
a)	2 pair	55	Mtrs.		
	Make: Finolex/Delton/Nicco/netco				

Sl. No.	Description.	Quantity	Unit	Rate(Rs.)	Amount (Rs.)
7	Supplying and fixing of modular type 20A AC starter switch along with GI box to be recessed/surface in wall including connections but excluding providing modular plate etc. as required.	6	Nos.		
	Make: Crabtree/MK/Legrand/L&T/Havells				
8	supplying and fixing of 20 A shuttered socket on the existing modular plate & switch box including connections but excluding providing modular plate etc. as required.	6	No.		
	Make: Crabtree/MK/Legrand/L&T/Havells				
9	Supplying & fixing of following ways surface /recess mounting vertical type, 415V,TPN MCCB incoming , sheet steel, distribution board with both end cable entry box of dust protected,duly powder painted, inclusive of 160A tinned copper bus bar, common neutral link,earth bar,din bar, for mounting MCBs complete as required.				
a)	12 Way (4+36)Double door.	1	No.		
b)	6 Way (4+18)Double door.	1	No.		
	Make: Legrand/L&T/ABB/C&S/Havells				
10	Supplying & fixing of following ways surface /recess mounting vertical type, 415V,TPN MCB incoming , sheet steel, distribution board with both end cable entry box of dust protected, duly powder painted, inclusive of 160A tinned copper bus bar, common neutral link, earth bar, din bar, for mounting MCBs complete as required.				
a)	12 Way (4+36)Double door.	1	No.		
	Make: Legrand/L&T/ABB/C&S/Havells				
11	Supplying and fixing following way,single pole and neutral,sheet steel, MCB distribution board, 240V,on surface/recess,complete with tinned copper busbar,earth bar din bar, interconnections,powder painted including earthing etc.as required.(But without MCB/RCCB/Isolator				
a)	6 way, Double door	6	Nos.		
b)	8 way, Double door.	1	No		
	Make: Legrand/L&T/ABB/C&S/Havells				
12	Supplying & fixing of following rating 240/415 V, 10KA, 'C' curve MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	6A single pole	15	Nos.		
b)	16A single pole	65	Nos.		
c)	20A single pole	8	Nos.		
d)	32 A Single Pole	2	No.		
e)	32A Double pole	2	No.		
f)	32 A Triple pole	3	Nos.		
g)	32 A Triple pole & neutral	2	Nos.		
h)	63 A Single Pole.	2	No.		
i)	63 A Double Pole.	2	Nos.		
j)	63 A triple pole	4	Nos.		
k)	63 A Four pole	3	Nos.		
	Make: Legrand/L&T/ABB/C&S/Havells				

Sl. No.	Description.	Quantity	Unit	Rate(Rs.)	Amount (Rs.)
13	Supplying & fixing of following rating, breaking capacity & pole MCCB with thermomagnetic release & terminal spreader in existing panel board including drilling holes in the panel , making connection etc. complete as required.				
a)	160A, 4 pole,25 KA MCCB.	2	No.		
	Make: Legrand/L&T/ABB/C&S/Havells				
14	Supplying of following PVC sheathed/XLPE insulated armoured multistrand aluminium power cable of 1.1 KV grade as per IS : 7098 (part-1) 1988 etc. as required.				
a)	4 core 10 sq.mm	40	Metre		
b)	3 coreX 16 sq.mm.	55	Metre		
c)	4 core X 16 sq.mm.	16	Metre		
d)	3.5 core X 25 sq.mm.	16	Metre		
e)	3.5 core X 70 sq.mm.	23	Metre		
f)	3.5 core X 95 sq.mm	105	Metre		
15	Laying & fixing of one no PVC insulated and PVC sheathed /XLPE power cable of 1.1 KV grade of size on wall surface as required (upto 35 sq.mm clamped with 1 mm thick saddle)				
a)	4 core 10 sq.mm	40	Metre		
b)	3 coreX 16 sq.mm.	55	Metre		
c)	4 core X 16 sq.mm.	16	Metre		
d)	3.5 core X 25 sq.mm.	16	Metre		
	Make: Polycab/gloster/KEI/Havells				
16	Laying & fixing of one no PVC insulated and PVC sheathed /XLPE power cable of 1.1 KV grade of size on wall surface as required. Above 35 sq.mm & upto 95 sq.mm. (clamped with 25 mm 3 mm MS flat clamp)				
a)	3.5 core X 70 sq.mm.	23	Metre		
b)	3.5 core X 95 sq.mm.	69	Metre		
17	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required,but excluding sand cushioning and protective covering.				
a)	95 Sq.mm	36	Metre		
18	Supplying & making end termination with brass compression gland and Aluminium lugs for following size of PVC insulated & PVC sheathed /XLPE insulated 'Al' conductor power cable of 1.1 KV grade as required.				
a)	4 core 10 sq.mm	4	Each		
b)	3 coreX 16 sq.mm.	6	Each		
c)	4 core X 16 sq.mm.	4	Each		
d)	3.5 core X 25 sq.mm.	2	Each		
e)	3.5 core X 70 sq.mm.	2	Each		
f)	3.5 core 95 sq.mm	6	Each		

Sl. No.	Description.	Quantity	Unit	Rate(Rs.)	Amount (Rs.)
19	Providing & Fixing of 4 mm dia bare copper wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required.	290	Metre		
20	Supplying, fixing, testing and commissioning of wall mounted 2 X 20W LED batten type luminarie, cool day light, with lights, frame and all accessories complete, as required.	11	Nos.		
	Make: Crompton/Phillips/bajaj/Havells/wipro				
21	Supplying and fixing (with chain & fastnut arrangement) of indoor type 36 W, 2 feet X 2 feet recess mounted LED down light with die cast aluminium housing, heat sink, anti glare polycarbonate/acrylic diffuser and integrated energy efficient electronic driver. With colour temperature 5700K (cool day light).	10	Nos		
	Make: Crompton/Phillips/bajaj/Havells/wipro				
22	Supplying of 225 mm sweep, 1400 RPM, 3 blade, single phase exhaust fan with all accessories.	3	No.		
	Make: Crompton/Phillips/bajaj/Havells/wipro				
23	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc .as required.				
a)	Upto 450 mm sweep.	3	Nos.		
24	Supplying and fixing of aluminium louvers/shutters complete with frame for a exhaust fan of 9 inches.	3	Nos.		
25	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend couplers etc. conforming to IS 14930, part II complete with fitting and cutting, jointing etc in the existing trench, complete as required. (This job includes cutting the road and making good the same with M25 concrete).				
a)	90 mm dia (OD - 90 mm & ID - 76 mm.)	42	Metre		
26	Supply, installation ,testing and commissioning of 200 A, 4 -pole, Manual on-Load Change Over Switch, In sheet steel enclosure with hinged type single door, padlocking facility, duly painted with powder coated/epoxy based paint, removable gland plates, gasket protected and cable end boxes at both ends, having three distinct positions (Source-1, source-2 & off), confirms to IS/IEC 60947-3.	1	Each		
	Make: C&S,Hager,ABB , L&T,Legrand				
				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					