

Estimate cum Schedule of work.					
Name of work : Electrical renovation of Room No.:C-218,219, 220, C-320A, R-201,202,205 and M-274 at IACS, Jadavpur.					
Item 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.	46	No.		
	Group C (as per CPWD categorization)				
	Make: <u>wire</u> : Finolex, polycab, MES CAB, KEI, Havells <u>Conduit</u> : Piazza/presto/AKG/ precession				
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.	50	Metre.		
	Make: Polycab/Gloste/KEI/Havells				
3	Supplying of 3.5 core 50 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.	65	Metre.		
	Make: Polycab/Gloste/KEI/Havells				
4	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 X 16 sq.mm	50	Metre.		
5	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 50 sq.mm clamped with 1 mm thick saddle)				
a)	4 core X 50 sq.mm	65	Metre.		
6	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 X 16 sq. mm.	6	Nos.		
b)	4 core X 50 sq.mm	4	Nos.		
7	Providing & Fixing of 4 mm dia copper wire on surface or in recess for loop earthing along with exisiting surface / recessed conduit / submain wiring / cable as required.	230	Metre.		
8	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.	440	Mtrs.		
b)	2X4 sq.mm.+1X4 sq.mm. earth wire.	425	Mtrs.		
c)	2X6 sq.mm.+1X6 sq.mm. earth wire.	40	Mtrs.		
d)	4X6 sq.mm.+2X6 sq.mm. earth wire.	80	Mtrs.		
	Make: <u>wire</u> : Finolex, polycab, MES CAB, KEI, Havells <u>Conduit</u> : Piazza/presto/AKG/ precession				

9	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	No		
	Make: Legrand/L&T/ABB/C&S/Havells/Hagar				
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)	4 Way (4+12) Double door.	2	No.		
	Make: Legrand/L&T/ABB/C&S/Havells/Hagar				
11	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 200A tinned copper bus bar, common neutral link, earth bar, din bar, for mounting MCBs complete as required.				
	12 Way (4+36) Double door.	2	Nos.		
12	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)	125A, 4 pole, 36 KA MCCB.	2	No.		
	Make: Legrand/L&T/ABB/C&S/Havells/Hagar				
13	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 Chacoal, /coke, salt , as required.	2	Nos.		
14	Providing and fixing 25 mm X 5 mm copper strip (wrapped with PVC sleeve) on insulator surface for connections etc. as required.	60	Meter		
15	Providing and fixing 50 mm X 5mm copper strip on insulator surface for connections etc. as required.	1	Meter		
16	Supplying and fixing of single pole blanking plate in the existing DB complete etc. as required.	20	Nos.		
17	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	45	Nos.		
b)	16A single pole	30	Nos.		
c)	20A Single Pole	16	Nos.		
d)	32A tripple pole	7	Nos.		
e)	32A Four Pole	8	Nos.		
f)	63A tripple Pole	2	Nos.		
g)	63A four Pole	5	Nos.		
	Make: Legrand/L&T/ABB/C&S/Havells/Hagar				

18	Supplying and fixing 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)	25	Nos.		
b)	3 Modules (100mmX75mm)	5	Nos.		
c)	6 Modules (200mmX75mm)	20	Nos.		
d)	8 Modules (125mmX125mm)	45	Nos.		
e)	12 Modules (200mmX150mm)	5	Nos.		
	Make: Crabtree/MK/L&T/Hagar/Legrand				
19	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.	95	Nos.		
b)	3 pin 5/6 A socket outlet	128	Nos.		
c)	15/16 Amp switch.	42	Nos.		
d)	6 pin 15/16 Amp socket outlet.	52	Nos.		
	Make: Crabtree/MK/L&T/Hagar/Legrand				
20	Supplying and fixing of modular type 25A AC starter switch along with GI box to be recessed/surface in wall including connections but excluding providing modular plate etc. as required.	15	Nos.		
	Make: Crabtree/MK/L&T/Hagar/Legrand				
21	Supply,installation,testing & commissioning of Microprocessor based sequential AC timer , capable to switch between Two nos. of 2 ton AC sequentially,with auto/manual/bypass mode as per requirement.	2	Nos.		
	Make: Saitronics Systems/ carrier /Custom make				
22	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).	13	Nos		
	Make: Crompton/Phillips/bajaj/Havells/wipro				
23	Supplying, fixing, testing and commissioning of ceiling suspended downrod mounted 2 X 20W LED batten type luminarie, cool day light (5400K), with lights of 4 feet length, frame and all accessories complete, as required.	16	Nos.		
	Make: Crompton/Phillips/bajaj/Havells/wipro				
24	Supply, fixing of cable management system (CMS) along the wall using necessary bends, T-joints, end plates and fixing arrangements with dividers seperating power circuit and lighting circuit	20	Meter		
a)	100x50mm				
	Make: MK/ crabtree/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					