

Schedule of Works						
Name of Work: Electrical Renovation Work at Ladies Hostel of IACS, Jadavpur						
Item No.	Description	Qty	Unit	Rate (Rs.)	Amount	Remarks
	Sub-Head - I (Works):					
1(a)	Wiring for light point / fan point / exhaust fan point / call bell point with 1.5sq.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 1.5sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.					
	Group A (As per CPWD Categorisation)	155	Point			
(b)	Wiring for twin control light point with 1.5sq.mm. FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2-way modular switch, modular plate, suitable GI box and earthing the point with 1.5sq.mm. FRLS PVC insulated copper conductor single core cable etc. required.	50	Point			
2	Wiring for light / power plug with 2X4sq.mm. FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit alongwith 1 No 4sq.mm. FRLS PVC insulated copper conductor single core cable for loop earthing as required.	350	Metres			
3	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)	2X1.5sq.mm. + 1X1.5sq.mm. earth wire	750	Mtrs			
b)	2X4sq.mm. + 1X4sq.mm. earth wire	50	Mtrs			
4	Supplying and fixing of following size / modules GI box along with modular base & cover plate for modular switches in recess etc. as required.					
a)	2 module	55	nos			
b)	8 module	50	nos			
c)	3 module	60	nos			
5	Supplying and fixing of following modular switch / socket on the existing modular plate & switch box including connections but excluding plate etc. as required.					
a)	5/6 amp switch	190	nos			
b)	5 pin 6A socket	90	nos			

Item No.	Description	Qty	Unit	Rate (Rs.)	Amount	Remarks
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	20	nos			
7	Supplying & Fixing of Call bell suitable for Single Phase 230V with GI Box & Bakelite cover complete recessed in wall.	1	no.			
8	Supply & Fixing RJ11 Modular type of Telephone Outlet in G.I. Box with cover recessed in Wall / Furniture.	3	nos			
9	Supply & Fixing RJ45 Modular type LAN Socket in G.I. Box with cover recessed in Wall / Furniture.	50	nos			
10	Supplying & fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	36	nos			
11	Supplying and drawing 2 pair 0.5mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface / recessed steel / PVC conduit as required.	50	mtrs			
12	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface / recessed steel / PVC conduit as required.	500	mtrs			
13	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.	350	mtrs			
14	Supply and fixing, Testing & Commissioning of foot light fittings including 15W pigmy lamp. The job includes supply & concealed of suitable size GI Box with all accessories.	38	nos			
15	Supply, installation, Connection, testing & Commissioning of 200A, TPN Switch Fuse Unit on existing Power Distribution Panel complete with connection with suitable size copper conductor flexible cable copper sockets from existing Bus-Bar. The job also includes, supply & fixing of MS angle frame for mounting of SFU with all hardwares as required.	1	set			

Item No.	Description	Qty	Unit	Rate (Rs.)	Amount	Remarks
16	Supply, Installation, testing & Commissioning of wall mounted totally enclosed type, compartmentalised, Main Power Distribution Board made of 2mm thick CRCA Sheet Steel, mounted on MS angle iron frame of required sizes, dust & vermin proof, complete with powder coated painting (synthetic enamel), comprising with the following including providing & fixing all hardwares & accessories etc. as required following the approved drawing & direction of the Engineer-in-Charge.	1	No			
	Incomer: 200A, 35KA, 4-Pole MCCB-1 No. Digital type Multifunction Meter - 1 no, 200/5A 5VA CT- 3 nos Phase indication with LED Lamp & control fuses- 3 sets, High conductivity 300A, 415V, TPN (the cross-sectional area of the neutral bus bar will be same as that of phase bus bar) copper Bus-Bar to be fixed on FRP/epoxy bonded busbar insulators, 500/415V, 200A, 4-Pole ATS (Automatic Transfer Switch) with inbuilt time delay (Havell's Cat No. IHYFSAO 200) as incomer for normal as well as DG Power Supply-1No., MV Danger Notice Plate of 200mm x 150mm made of Mild Steel - 1 No. etc. complete with the following outgoint switches.					
	Outgoing: i) 63A, 35KA, 4 Pole MCCB- 8 nos.					
	ii) 32A, 35KA, 4- Pole MCCB 2 nos.					
17	Supplying and fixing following way prewired TP&N MCB Distribution Board of sheet steel for 415V on surface / recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS 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).					
	4-Way (4+12), Double door	7	nos			
18	Supplying and fixing of 5-32 amps rating, 240 "C" curve, miniature circuit breaker suitable for inductive load of single pole in the existing MCB DB complete with connections, testing and commissioning etc. as required.	84	nos			
19	Supplying and fixing 63 amps rating, 415 volts, "C" curve, miniature circuit breaker suitable for inductive load of four poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	7	nos			

20	Installation, Testing and Commissioning of pre-wired, fluorescent fitting/compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/wall, including connection with 1.5sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	112	Nos.				
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Item No.	Description	Qty	Unit	Rate (Rs.)	Amount	Remarks
21	Installation, Testing and Commissioning of Ceiling Fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	36	Nos.			
22	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.	17	Nos.			
23	Extra for fixing the louvers/shutters complete with frame for a exhaust fan of all sizes.	17	Nos.			
24	Laying of following size XLPE insulated PVC wheathed armoured aluminium conductor cable on surface / recess with aluminium saddles along with all necessary hardwares etc. as required as per direction of the Engineer-in-Charge.					
	3.5core 120sq.mm.	30	Mtrs			
25	Providing end termination of the following XLPE insulated PVC sheated armoured Al. conductor cable with heavy duty brass compression gland (Dowells or similar superior make approved by IACS) including crimping type copper sockets, PVC insulated tape etc. as required.					
	3.5 core 120sq.mm.	2	sets			
26	Laying of following size XLPE insulated PVC sheathed armoured aluminium conductor cable on surface/recess with aluminium saddles along with all necessary hardwares etc. as required as per direction of the Engineer-in-Charge.					
	4-Core 16 sq.mm.	200	mtrs			
27	Providing End termination of the following XLPE insulated PVC sheated armoured al. conductor cable with heavy duty brass compressor gland (Dowells or smimilar superior make approved by IACS) including crimping type copper sockets. PVC insulated tape etc. as required.					
	4-Core 16 sq.mm.	14	Sets			
28	EARTHING:					
a)	Supplying and installation of Earth Station with G.I. Earth Electrode 4.5 m long, 90mm dia G.I. medium guage pipe incouding accessories and providing masonry enclosure with cover plate having locking arrangement, including salt and charcoal as required as per specification, latest edition of IS 3043 and I.E. Rules, works shall be carried out on the basis of approved drawing and direction of Engineer-in-Charge.	2	Sets			

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b)	Supplying and drawing of 4mm dia Copper wire from Earth Bus to electrical equipments on surface or recess for loop earthing alongwith existing surface / recessed conduit / sub-main wiring / cable as required, all as per approved design, drawings & as directed.	500	mtrs			
c)	Supplying and drawing of earth conductor by 25mm X 5mm GI strip from Earth Station to Earth bus / Test link through underground / wall surface as required, all as per approved design, drawings & as directed.	20	mtrs			
d)	Providing and fixing earth bus of 50mm X 5mm copper strip on surface, all as per approved design, drawings & as directed.	0.5	mtrs			
29	LIGHTING CONDUCTOR SYSTEM:					
a)	Supplying and installation of Earth Station with 4.5mtr. Long 40mm dia.G.I. Pipe (electrode) as per specifications, latest edition of IS:3043 and I.E. Rules as per direction of Engineer-in-Charge. Works shall be carried out on the basis of approved drawing. The job also includes providing salt and charcoal as required including masonry pit with hindge type lockable C.I. cover, all as per approved design, drawings & as directed.	4	sets			
b)	Supplying and drawing of earth conductor by 32mm X 6mm G.I. strip from Earth Station to Test Link directly in ground, all as per approved design, drawings & as directed.	20	mtrs			
c)	Providing and fixing of lightening conductor finial made of 25mm dia 300mm long, G.I. tube, having single prong at top, with 85mm dia 6mm thick G.I. base plate including holes etc. as required, all as per approved design, drawings & as directed.	4	sets			
d)	Providing and fixing G.I. strip 20mm X 3mm thick on parapet or surface of wall as required (for horizontal run).	100	mtrs			
e)	Same as above but for vertical run.	50	mtrs			
f)	Supply and installation of Test-Link of size 20mm X 3mm X 125mm G.I. strip on porcelain base duly fixed on wall surface.	4	sets			
		Total (Rs.)				
		Say (Rs.)				

Note: The works shall be carried out as per CPWD Specifications unless otherwise specified.

Supply

Name of Work: Electrical Renovation Work at Ladies Hostel of IACS, Jadavpur

Item No.	Description	Qty	Unit	Rate (Rs.)	Amount	Remarks
	Sub-Head-II (Supply):					
1	Supply of 1200 mm Sweep Ceiling fan complete with all accessories.	36	nos			
2	Supply of following sizes Exhaust Fan including Aluminium louver .					
a)	225mm dia	10	nos			
b)	300mm dia	5	nos			
c)	450mm dia	2	nos			
3	Supply of following light fitting:					
a)	As per PHILIPS CAT NO. TMS 122 / 128HF with T-5, 28W lamp.	112	nos			
b)	Bulk Head fixture as per PHILIPS CAT NO. (FXC 101 / 9W PL)	10	nos			
c)	Surface Decorative Ceiling Mounted fixture with HF electronic Ballast & Opaque diffuser prefitted with 22W circular fluorescent Make of Havell's make	1	no			
4	Supplying of following size XLPE insulated PVC sheathed armoured aluminium conductor cable of CCI / Gloster / Nicco / Havells / Polycab / Universal make at site at IACS, Jadavpur.					
	3.5 C X 120sq.mm.	30	Mtrs			
5	Supplying of following size XLPE insulated PVC sheathed armoured aluminium conductor cable of CCI/Gloster/Nicco/Havells/Polycab/Universal made at site at IACS, Jadavpur.					
	4-core 16sq.mm	200	Mtrs			
				Total:		

Note:

1) The quantity of supply of materials should be as per the requirement of site. The above requirement as estimated may actually vary at site. Contractor should not bring the estimated quantity without verifying the site requirement.

ii) The supplied quantity should be equal to the executed quantity.

ABSTRACT OF COST

Name of Work: Electrical Renovation Work at the Ladies Hostel of IACS, Jadavpur

Total for Sub-Head - I: Rs.

Total for Sub-Head - II: Rs.

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Total for Sub-Head - I & II:	Rs.	(A)
Add Contingencies @ 5% on (A)	Rs.	
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Grand Total Rs.

(Rupees Eleven Lakhs Seventy One Thousand Seven Hundred Twenty Five Only)