

schedule of work					
Name of the work: Miscellaneous electrical renovation of hostels, street light and Room No.: M-032 at IACS, Jadavpur					
Sl.No	Description of Items.	Quantity	Unit	Rate	Amount
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.	75	Point		
	Make: wire: Finolex, polycab, Gloster, MES CAB, KEI, Havells Conduit : Piazza/presto/AKG/ precession				
2	Supply and fixing wall mounted revolving fan with 3 nos. metal (Aluminium alloy) blades, copper winding, steel/Al body. Power Factor not less than 0.9, suitable for 230 V, 50 Hz, single phase AC supply, i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable PVC insulated copper conductor single core cable and earthing etc. as required. (As per Havells Girik NEO or equivalent).				
a)	400 mm sweep	70	Nos.		
	Make: Crompton/Phillips/Havells/wipro				
3	Supplying and fixing of armed bracket made up with 32 mm dia X 2 meters long GI pipe (medium class) bracket for mounting of fluorescent /LED street light fittings on existing pole, including bending the pipe to the required shape, 2 numbers 40mm X 3 mm flat iron clamps with nuts and bolts and washers, etc., as required.	5	Nos.		
4	Supply and fixing of 50 MM dia GI (Medium class) pipe 2 meter long as an extension of the existing pole to be welded with the existing pole with continuous welding .	2	Nos.		
5	LED street light fixture, power coated, pressure die-cast aluminium body (System lumen efficiency 120 to 135 lumen/ Watt. Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 °C to 50 °C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%, THD < 10% as per IEC 61000-3-2, P. F.>= 0.95, IP-66, IK-10, CRI ≥70, under voltage and over voltage protection, EMI-EMC As per CISPR 15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90 degree).				

a)	25W	15	Nos.		
b)	72W	5	Nos.		
c)	150W	2	Nos.		
	Make: Crompton/Phillips/Havells/wipro				
6	LED Down lighter (SMD Type) (System lumen efficacy $\geq 105 < 120$ lm/Watt) Supplying, Installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round shaped: 166 mm Dia) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS: 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5°C to 40°C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10%, P. F.20.95, IP20, CRI >80, UGR (Unified Glare Rating) ≤ 19 , Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 5700°K /6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and <120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body.				
a)	12-15W	55	Nos.		
	Make: Crompton/Phillips/Havells/wipro				
7	SITC of analog chronological time switch of following configuration to be mounted on feeder pillar/ lighting DBs for automatic switching of street lights with manual override facility.				
a)	1 output per phase and suitable for single phase supply	10	Nos.		
	Make: Hagar/L&T/ABB/Legrand/				
8	Providing and laying 20 mm dia 1.5 Meter long GI spike type earth electrode for body earthing including supplying of connection from earth with 6 SWG dia GI wire including connection with GI thimble, excavation and re-filling as required.	10	Set		
9	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.	1	Nos.		
10	Providing and fixing 25 mm X 5 mm GI strip (wrapped with PVC sleeve) on insulator surface for connections etc.as required.	25	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:					
<u>CGST@ 9% considered in the above BOQ</u>					
<u>SGST@ 9%Considered in the above BOQ</u>					