

ABSTRACT OF COST

Name of Work:- Repair and renovation of Vidyasagar Hostel of ICAR-CIFE, 32-GN Block, Sector-V, Salt Lake, Kolkata. (Balance work). SH-II: Repair & Renovation of Electrical Wiring and Fittings with provision of LED Lights.

SI No.	Description	Qty	Unit	Rate	Amount
	SH-I Wiring				-
1.1	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.				
1.1.1	Group A	145.00	Point	1015.00	1,47,175.00
1.2	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required.				-
1.2.1	Group A	25.00	Point	574.00	14,350.00
1.3	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required				-
1.3.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	400.00	Mtrs	233.00	93,200.00
1.3.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	350.00	Mtrs	334.00	1,16,900.00
1.3.3	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	100.00	Mtrs	537.00	53,700.00
1.3.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	75.00	Mtrs	439.00	32,925.00
1.3.5	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	60.00	Mtrs	1005.00	60,300.00
1.4	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.				-
1.4.1	1 or 2 Module (75mmX75mm)	50.00	Each	298.00	14,900.00
1.4.2	8 Module (125mmX125mm)	10.00	Each	454.00	4,540.00
1.5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	40.00	Each	477.00	19,080.00
1.6	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.	40.00	Each	586.00	23,440.00
1.7	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				-
1.7.1	5/6 amp switch	10.00	Each	103.00	1,030.00
1.7.2	3 pin 5/6 amp socket outlet	10.00	Each	122.00	1,220.00
1.7.3	15/16 amp switch	6.00	Each	156.00	936.00
1.7.4	6 pin 15/16 amp socket outlet	6.00	Each	197.00	1,182.00
1.7.5	TV antenna socket outlet	10.00	Each	148.00	1,480.00
1.8	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.				-
1.8.1	25 mm	30.00	Mtrs	145.00	4,350.00
1.8.2	32 mm	20.00	Mtrs	184.00	3,680.00

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SI No.	Description	Qty	Unit	Rate	Amount
1.9	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	500.00	Mtrs	47.00	23,500.00
	SH-II MCCB, MCB & DB's				-
2.1	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				-
2.1.1	8 way (4 + 24), Double door	2.00	Each	10165.00	20,330.00
2.2	Providing and fixing following rating and breaking capacity and pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				-
2.2.1	100 Amp, 30 KA, FPMCCB	2.00	Each	7723.00	15,446.00
2.3	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				-
2.3.1	8 way (4 + 24), Double door	4.00	Each	5967.00	23,868.00
2.4	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				-
2.4.1	8 way, Double door	4.00	Each	2573.00	10,292.00
2.5	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc.				-
2.5.1	Single pole	120.00	Each	256.00	30,720.00
2.6	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				-
2.6.1	63 amps	4.00	Each	527.00	2,108.00
2.7	Supplying and fixing following rating, 240/415 volts, "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.				-
2.7.1	63 A Tripple pole	16.00	Each	1808.00	28,928.00
2.8	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				-
2.8.1	63 amps	4.00	Each	1034.00	4,136.00

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SI No.	Description	Qty	Unit	Rate	Amount
	SH-III Fans & Fittings				-
3.1	Supplying, Installation, Testing and Commissioning of Surface mounting LED single Batten fitting, precoated CRCA housing, having 20-22 watt, CCT not less than 5700 K, system luminous efficacy > 100 Lm/W, system lumen output > 2000 lumen i/c glare free 1 No. PC LED lamp (LED lamp should be replaceable), electronic driver, diffuser suitable for operation on 230 V (+/- 10 %), 50 Hz, AC supply, i/c connection etc. as required.	100.00	Each	945.00	94,500.00
3.2	Supplying, Installation, Testing and Commissioning of Surface mounting LED Double Batten fitting, precoated CRCA housing, having 20-22 watt, CCT not less than 5700 K, system luminous efficacy > 100 Lm/W, system lumen output > 2000 lumen i/c glare free 2 Nos. PC LED lamp (LED lamp should be replaceable), electronic driver, diffuser suitable for operation on 230 V (+/- 10 %), 50 Hz, AC supply, i/c connection etc. as required.	20.00	Each	1367.00	27,340.00
3.3	Supplying, Installation, Testing and Commissioning of Surface mounted Round Shaped LED downlight luminaire suitable for 10 -12 W, 230 V (+/- 10 %), 50 Hz, AC supply, with LED lamp, system lumen output not less than 1200 lumens, electronic driver, high quality diffuser i/c connection etc. as required.	50.00	Each	913.00	45,650.00
3.4	Supplying, Installation, testing and commissioning of surface mounted Mirror light LED batten suitable for 9-12 W, CCT not less than 5700 K. 230 V. 50 Hz, AC supply with high power LED lamps, electronic driver, diffuser i/c connection as required.	10.00	Each	667.00	6,670.00
3.5	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374- 2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise- 75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	40.00	Each	2730.00	1,09,200.00
3.6	Supplying and Installation , of exhaust fan of 300 mm sweep, 900 rpm, with metal body(heavy duty), in the existing opening , connection testing and commissioning etc as reqd.	48.00	Each	5713.00	2,74,224.00
3.7	Supplying, Installation, testing and commissioning of wall hanging reading/bedside LED light with system lumen 300 and efficacy of 100 lm/W for soft diffused lighting including driver and other accessories suitable for 230V, 50 Hz AC etc. complete as reqd. i/c dismantelling the od worn out or damaged fitting and buy back the same.(With five year guarantee)	72.00	Each	1566.00	1,12,752.00
3.8	Dismantling of all old / damaged wiring i/c fan, light fittings, DB, MCB, Main switches, Panels i/c disconnection, stacking at store, counting etc i/c handed over all dismantled materials to client department complete as required.	1.00	Job	15000.00	15,000.00
	SH-IV Earthing & safety equipments				-

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SI No.	Description	Qty	Unit	Rate	Amount
4.1	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required.	4.00	Each	5368.00	21,472.00
4.2	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	30.00	Mtrs	706.00	21,180.00
4.3	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30.00	Mtrs	244.00	7,320.00
4.4	Providing, installation, testing and commissioning of ISI marked CO2 type fire extinguisher of 4.5 kg capacity consisting of seamless cylinder, complete with delivery hose horn, squeeze grip release valve, locking arrangement etc complete conforming to IS:15683:2006 duly charged with CO2 etc. complete with up to date test certificate as required.	6.00	Each	7494.00	44,964.00
4.5	Providing, installation, testing and commissioning of ISI marked ABC stored pressure type fire extinguisher of 6 kg capacity consisting of welded cylinder, squeeze lever discharge valve fitting with pressure indicating gauge with internal discharge tube, discharge nozzle, suspension bracket conforming to IS:15683:2006 duly charged, with IS marked mono Ammonium Phosphate base ABC powder conforming to IS:14609 charged with purged water and pressurized with nitrogen gas etc. as required.	6.00	Each	3802.00	22,812.00
	SH-V Air Conditioner and Geyser				-
5.1	Supplying, installation, testing and commissioning of inverter type 5 star Split Air conditioner with minimum cooling capacity 4800 Watt, Rated ISEER 5.0, rotary type compressor, the refrigerant R32/R410a, Air flow Volume- not less than 500 CFM on medium cooling, including supplying and fixing of required base frame to rest the outdoor unit on wall, necessary cutting, drilling hole on wall, plastering, painting, installation of drain water pipe of sufficient length as per site requirement, initial charging of refrigerant, connection etc. complete as required. The agency should provide 02 times free servicing in one year from the date of installation of the machine .	2.00	Each	61047.00	1,22,094.00
5.2	Supplying, installation, testing and commissioning of 15 Ltr Vertical type geyser including water piping, etc. as required.	10.00	Each	11117.00	1,11,170.00
	SH-VI Trunking				
6	Supplying and installation of following sizes DLP PVC adaptable trunking system along with base, cover, partition, finishing accessories and mounting wiring accessories etc complete as reqd.				-
6.1	100 mm x 50 mm	60.00	Mtrs	931.00	55,860.00
6.2	50 mm x 50 mm	40.00	Mtrs	525.00	21,000.00
7	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing PVC trunking as required.(Make : Gloster)				-
7.1	3 x 1.5 sq. mm	240.00	Mtrs	80.00	19,200.00
7.2	3 x 4 sq. mm	520.00	Mtrs	201.00	1,04,520.00
				Total	₹ 19,90,644.00

Assistant Engineer[E][P]
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