

SETTING UP OF EMERGENCY & CRITICAL CARE DEPARTMENT IN THRISSUR MEDICAL COLLEGE CONSTRUCTION OF TRIAGE BUILDING					
SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
A. LT Wiring					
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 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	Group C	Point	270		
2	Wiring for twin control light point with 1.5 sq.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 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Point	10		
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 medium class PVC conduit as required.				
3.1	2 x 1.5 sq.mm + 1 x 1.5 sq.mm earth wire	Rm	1175		

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	PART - II ELECTRICAL WORKS				
3.2	2 x 2.5 sq.mm + 1 x 2.5 sq mm earth wire	Rm	1685		
3.3	2 x 4.0 sq.mm + 1 x 4.0 sq mm earth wire	Rm	400		
4	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.				
4.1	20 mm	Rm	600		
4.2	25 mm	Rm	500		
4.3	32 mm	Rm	100		
5	Supplying and fixing metal box of size 250 x 300 x 100 mm deep (normal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.	Each	10		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
6	Supplying and drawing 2 pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	Rm	450		
7	Supplying and drawing co-axial TV cable RG-6 grade, 0.7mm 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.	Rm	200		
8	Supplying and fixing following modular socket outlet on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
8.1	Telephone socket outlet	Each	15		
8.2	TV antenna socket outlet	Each	2		
9	Supplying and fixing stepped type electronic fan regulator-modular on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	50		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
PART - II ELECTRICAL WORKS					
10	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	50		
11	Supplying and fixing following size / modules, PVC box alongwith modular base & cover for modular telephone/ data sockets in recess / surface etc as required.				
11.1	1 or 2 module	Each	70		
12	Supplying and fixing suitable size PVC 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.	Each	150		
13	Supplying and fixing suitable size PVC 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.	Each	65		

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	PART - II ELECTRICAL WORKS				
14	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	50		
15	Supplying and fixing call bell / buzzer suitable for single phase, 230 volt, complete as required.	Each	5		
16	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 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	110		
17	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	Each	50		
18	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				

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	PART - II ELECTRICAL WORKS				
18.1	Upto 450 mm sweep	Each	10		
19	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	Each	110		
20	Supplying and drawing UTP 4 pair CAT 6 LAN cable in the existing surface / recessed steel / PVC conduit as required.	Rm	300		
	B. MCBs, DBs and Cable Trays				
a)	Supplying and fixing following way surface / recess mounting vertical type, 415 volt, TPN MCB distribution board of steel sheet, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of 100 amps TP 16kA MCCB as incomer, interconnection between incomer MCCB and bus bars (But without MCB's/ MCCB) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				

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PART - II ELECTRICAL WORKS					
b)	8 way TP	Each	3		
22	Providing and fixing 100 amp 16 kA TP MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections etc as required.	Each	3		
23	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box 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, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
24	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR 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)				

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
	a) 4 way, Double door	Each	3		
	b) 6 way, Double door	Each	2		
	c) 8 way, Double door	Each	1		
25	Supplying and fixing following way prewired SP&N MCB distribution board of steel sheet for 240 volts 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)				
	a) 4 way, Double door	Each	1		
	b) 8 way, Double door	Each	1		

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PART - II ELECTRICAL WORKS					
26	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	40 amps	Each	3		
b)	63 amps	Each	3		
27	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
27.1	40 amps	Each	2		
28	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	25 amps	Each	1		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
	b) 40 amps	Each	1		
29	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	a) 25 amps	Each	3		
	b) 40 amps	Each	1		
	c) 63 amps	Each	2		
30	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. as required.				
	a) Single pole	Each	60		

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	PART - II ELECTRICAL WORKS				
b)	Triple pole	Each	12		
c)	Triple pole and neutral	Each	6		
31	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	30		
32	Supply and fixing TP sheet steel enclosure on surface recess along with 16/25/32/ amps 415V "C" curve TP MCB complete with connections, testing and commissioning etc as required.	Each	12		
33	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	5		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
34	Supplying and fixing 30 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	2		
35	Supply and installing 300mm x 50 mm depth x 1.6mm thick perforated GI cable trays with perforations not more than 17.5% in convenient sections, joined with connectors, GI suspenders including nuts and bolts, bends, tees etc as required	Rm	25		
C. Earthing					
36	Earthing with GI earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	10		
37	Supply and laying 25mm x 5mm GI strip at 0.5m below ground as strip earth electrode, including connection / terminating with nut, bolt, spring, washer etc as required (Jointing shall be done by overlapping and with 2 sets of GI nut bolt & spring washer spaced 50mm).	Rm	140		
38	Providing and fixing 25 mm X 5 mm GI strip on surface or in recess for connections etc. as required.	Rm	230		

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	PART - II ELECTRICAL WORKS				
39	Providing and fixing 8 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Rm	300		
40	Providing and fixing 4 mm dia Cu wire on surface or in recess for loop earthing as required.	Rm	130		
	D. MV Cable laying and Termination				
41	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, sand cushioning, protective covering and refilling the trench etc as required.				
a)	Upto 35 sq. mm	Rm	80		
b)	Above 35 sq. mm and upto 95 sq. mm	Rm	40		
c)	Above 95 sq. mm and upto 185 sq. mm	Rm	180		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
42	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing HUME/RCC/METAL pipe as required.				
a)	Upto 35 sq. mm	Rm	20		
b)	Above 35 sq. mm and upto 95 sq. mm	Rm	10		
c)	Above 95 sq. mm and upto 185 sq. mm	Rm	30		
43	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
a)	Upto 35 sq. mm	Rm	20		
b)	Above 35 sq. mm and upto 95 sq. mm	Rm	10		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
PART - II ELECTRICAL WORKS					
	c) Above 95 sq. mm and upto 185 sq. mm	Rm	30		
44	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a)	Upto 35 sq. mm (clamped with 1mm thick saddle)	Rm	500		
b)	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Rm	120		
c)	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Rm	10		
45	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
a)	Upto 35 sq. mm (clamped with 1mm thick saddle)	Rm	370		
b)	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Rm	100		

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	PART - II ELECTRICAL WORKS				
c)	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Rm	10		
46	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	Each	20		
47	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)	3.5 x 185 sqmm cable	Each	4		
b)	3.5 x 120 sqmm cable	Each	2		
c)	3.5 x 70 sqmm cable	Each	2		

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	PART - II ELECTRICAL WORKS				
d)	3.5 x 50 sqmm cable	Each	10		
e)	3.5 x 35 sqmm cable	Each	6		
f)	3.5 x 25 sqmm cable	Each	6		
g)	4 x 16 sqmm cable	Each	12		
h)	4 x 10 sqmm cable	Each	16		
i)	4 x 6 sqmm cable	Each	16		

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	PART - II ELECTRICAL WORKS				
48	Providing, laying and fixing of 100mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required	Rm	15		
49	Providing, laying and fixing of 150 mm dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.	Rm	20		
	E. LT Panel Board and Accessories				
50	Supply, Installation, Testing & Commissioning of cubicle type Main panel board, made out of 2mm thick CRCA sheet, totally enclosed, IP42, free standing, floor mounting, dust and vermin proof, powder coated, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system, including internal wiring with suitable size wires, rotary handle, spreaders etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification.				
	Incomer				
	1 no. 400A, TPN Switch disconnecter fuse unit with suitable rated Din type HRC fuse based on actual load.				
	Busbar				
	1 Set of 400 Amp TPN busbars of high conductivity electrolytic quality Aluminium alloy.				
	Instruments				
	1 No 3 phase Digital Multi function meter to read V, A, F with Acc class 1.				

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	PART - II ELECTRICAL WORKS				
	1 No 3 phase 4 wire CT operated energy meter, 5-10A, Acc. Class 1.				
	1 Set of phase indicating lamps, LED type, RYB.				
	1 Set of 2A 10kA C curve SP control MCB				
	1 Set of 400/5A, Class 1.0, 10VA, Cast Resin CT for metering.				
	1 Set of 400/5A, Class 1.0, 10VA, Cast Resin CT for APFC relay.				
	3 nos Ammeter (0-400A), Acc class 1 with 240 deg., defl. Scale.				
	Outgoing				
	1 nos. 125A, FP Switch disconnecter (Isolator)				
	5 nos. 100A, 25kA, TP+NL MCCB having isolation duty with E/F release, adjustable thermal magnetic release for O/L & SC protection.				
	4 nos. 63A, 25kA, TP+NL MCCB having isolation duty with E/F release, adjustable thermal magnetic release for O/L & SC protection.	Job	1		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
51	Supply, Installation, Testing & Commissioning of 40kVAR APFC panel, cubicle type, made out of 2mm thick CRCA sheet, totally enclosed, IP42, free standing, floor mounting, dust and vermin proof, powder coated, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system, including internal wiring with suitable size wires, rotary handle, spreaders etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification.				
	Incomer				
	1 nos. 100A, 25kA, TP+NL MCCB having isolation duty with E/F release, adjustable thermal magnetic release for O/L & SC protection.				
	Busbar				
	1 Set of 150 Amp TPN busbars of high conductivity electrolytic quality Aluminium alloy.				
	Instruments				
	1 No 3 phase Digital Multi function meter to read V, A, F with Acc class 1.				
	1 Set of phase indicating lamps, LED type, RYB.				
	1 Set of 2A 10kA C curve SP control MCB				
	1 Set of 100/5A, Class 1.0, 10VA, Cast Resin CT for metering.				
	1 no. 6 stage microprocessor based APFC relay				
	3 set On, Off push button				
	3 set On, Off LED type indication lamp				
	1 set Auto / manual selector switch.				
	Outgoing				
	2 Nos 40A, TPN, C curve MCB.				
	1 Nos 32A, TPN, C curve MCB.				
	2 Nos. 15 kVAR MPP heavy duty capacitor with capacitor duty contactor.				
	1 Nos. 10 kVAR MPP heavy duty capacitor with capacitor duty contactor.				
	3 nos spare cubicle shall be provided for providing feeder for connecting 3 more capacitor bank. Also space provision shall be provided for providing 3 more capacitor bank.				

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	PART - II ELECTRICAL WORKS				
	Louvers shall be provided in the outer cover where capacitors are mounted also panel mounted ventilating fans shall be provided for proper cooling of capacitor bank.	Each	1		
52	KSEB Meter Board - Supply, Installation, Testing & Commissioning of Three phase meter box, cubicle type, made out of 2mm thick CRCA sheet, totally enclosed, IP54, wall / floor mounting, dust and vermin proof, powder coated, outdoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system including internal wiring with suitable size wires, rotary handle, spreaders, 3mm thick gland plate, hinged type door with neoprene gasket etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification.				
	Switchgear & other Accessories				
	3 phase CT operated energy meter from KSEB with all connections, glass view panel, control MCB, lockable compartment etc.				
	3 nos. Suitable ratio CT (as per KSEB) with Acc. Class 0.5, 10VA in lockable compartment.				
	3 nos 400A cutout fuse unit with HRC fuse and 1 no. Neutral link.				
	1 no. 400A, FP, AC23A, 415V, 50Hz switch disconnector fuse unit with Din type HRC fuse of suitable rating (as per KSEB) in separate cubical.				
	1 Set of phase indicating lamps, LED type, RYB.				
	1 Set of 2A 10kA C curve SP control MCB				
	1 no of Analogue voltmeter, Acc. Class 1 with selector switch.				

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	PART - II ELECTRICAL WORKS				
	The meter board shall have 400 Amp TPN busbars of high conductivity electrolytic quality Aluminium alloy, earth bus of required size, 4P terminal connectors, control wiring with all required accessories complete.	Each	1		
	F. LT Cables				
53	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date.				
53.1	3.5 x 185 sqmm cable	Rm	240		
53.2	3.5 x 120 sqmm cable	Rm	80		
53.3	3.5 x 70 sqmm cable	Rm	100		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
PART - II ELECTRICAL WORKS					
53.4	3.5 x 50 sqmm cable	Rm	180		
54.5	3.5 x 35 sqmm cable	Rm	100		
55.6	3.5 x 25 sqmm cable	Rm	180		
56.7	4 x 16 sqmm cable	Rm	190		
56.8	4 x 10 sqmm cable	Rm	240		

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	PART - II ELECTRICAL WORKS				
56.9	4 x 6 sqmm cable	Rm	280		
G. Light Fixtures					
57	Supply of 1x28 watts surface mounted luminaire, CRCA powder coated housing, without reflector, pre-wired complete with all accessories like electronic ballast, 28W T5 lamp etc complete as required. (Bajaj BTIR 128 / Crompton T5JB1328REB / Havells LHIT0 1128050).	Each	40		
58	Supply of 2x28 watts surface mounted luminaire, CRCA powder coated housing, without reflector, pre-wired complete with all accessories like electronic ballast, 28W T5 lamp etc complete as required. (Bajaj BTIR 228 / Crompton T5GP228EB / Havells LHIT0 1228051).	Each	10		
59	Supply of 1x14 watts fluroscent tube fitting sleek with decorative end cap, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 14W T5 lamp etc complete as required. (Bajaj BTER 114 / Crompton T5JB13114EB / Havells LHIT12114431).	Each	10		
60	Supply of 2x36W surface mounted light luminaire, with paralite P5 louvers, powder coated CRCA housing complete with all electrical accessories like electronic ballast, lamp holder, 36W CFL lamp etc complete as required. (Bajaj BSMLA 01 236 CFL WEB2 / Crompton CSFQ11236EB/P5 / Havells LHCC01236425)	Each	24		

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
61	Supply and installation of 4x14W recess mounted light luminaire, with mirror optic luminaire, powder coated CRCA housing complete with all electrical accessories like electronic ballast, lamp holder, 14W T5 lamp, mounting chain, hook etc complete as required. (Crompton T5CQS11414EBB / Bajaj BTMRA 414V2 / Havells LHCTD1414440)	Each	40		
62	Supply of 2x18 watts surface mounted decorative luminaire, powder coated CRCA housing, paralite louver, complete with all accessories like electronic ballast, 18W CFL lamp etc complete as required. (Crompton TLE218EB/P5 / Bajaj BSMLA 01 218 WEBS / Havells LHCC01218425)	Each	20		
63	Supply & installation of recess mounted LED down light fixture, with aluminium reflector, diffuser etc complete with all accessories like driver, LED lamp etc complete as required. (Crompton LCDD-15-CDL / Bajaj BZSLO 15W WH / Havells LHEBJNP5PZ1W015)	Each	40		
64	Supply and installation of 2x36W recess mounted clean room light luminaire, bottom opening, powder coated CRCA housing complete with all electrical accessories like electronic ballast, lamp holder, 36W CFL lamp, mounting chain, hook etc complete as required. (Crompton CRFW12236EB (595) / Bajaj BPRF 236 C LHD / Havells LHHC02236127)	Each	4		
65	Supply of ceiling fan 1200 mm sweep, double ball bearing, approved colour and quality with original down rod, suspension shackle, canopy etc with out regulator complete with all accessories as required. (Usha Sonata max / Crompton High Breeze)	Each	60		

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	PART - II ELECTRICAL WORKS				
66	Supply and installation of 400 mm sweep, wall fan, swinging type with speed control, necessary adapter, of approved colour, for single phase 230 volt, 50Hz AC supply complete with motor, capacitor all accessories as required complete. (Usha Helix High speed or Equi).	Each	5		
67	Supply of medium duty exhaust fan 300 mm sweep, 900 rpm, metal blades of approved colour, for single phase 230 volt, 50Hz AC supply complete with motor, capacitor and all accessories as required complete.	Each	10		
68	Supply & installation of PVC straight / Angle batten holder with ISI marking including ISI marked 15W CFL lamp, connection etc complete with all accessories as required.	Each	15		
H. UPS & MCBs					
69	Supply, installation, testing & commissioning of 10 kVA, 3 phase, input, 1 phase output, true on-line UPS system with 20 minutes back up (full load), including all accessories, Tubular batteries VRLA type with powder coated MS cabinet, battery cabling including all accessories as required complete having following specification.				
	Fully digital controlled based on DSP				
	Power factor corrected from end > 0.9				
	Pure sine wave output.				
	Full time output voltage & frequency regulation				
	Auto regulation of battery end voltage				
	Intelligent interface with LED/LCD display				
	Static bypass switch & manual by pass switch				

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	PART - II ELECTRICAL WORKS				
	Auto temperature compensation	Each	1		
70	Supplying and fixing following rating, 415 Volts, "C" series, miniature circuit breaker suitable for power loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required.				
a)		Each	4		
	40A TP MCB				
b)		Each	4		
	63A TP MCB				
c)		Each	1		
	63A DP MCB				

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	PART - II ELECTRICAL WORKS				
71	Supply and fixing FP sheet steel enclosure on surface recess along with 63 amps 415V FP MCB complete with connections, testing and commissioning etc as required.	Each	4		
I. Telephone system					
72	Supply and laying 20 pair 0.5 sqmm FR PVC insulated annealed copper conductor, jelly filled armoured telephone cable in surface / through pipe / underground including excavation and re-filling including all accessories as required.	Rm	150		
73	Supply and Installation of 20 pair MDF box, back mount frame and original krone connectors with all accessories.	Each	2		
74	Supply and Installation of 10 pair MDF box, back mount frame and original krone connectors with all accessories.	Each	3		
75	Supply & fixing modular type computer outlet (RJ-45) with modular base and cover plate, GI box complete with all accessories, connection etc. complete as required.	Each	20		
J. Miscellaneous					

SI No	Description	Unit	Qty	Rate in figures & words Rs	Amount in Rs
	PART - II ELECTRICAL WORKS				
76	Supply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 KV dielectric strength conforming to IS 5429/ 1969.	Rm	5		
77	Supply, fabrication and fixing 3 nos MS Fire buckets on suitable fabricated MS angle iron stand with hook, painting with red paint & filled with dry sand as required with all required accessories.	Set	1		
78	Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.	Each	1		
79	Supply and providing Electrical main single line Diagram duly framed and placed in a conspicuous location for clear vision.	Each	1		
80	Preparation of electrical drawing for the building, submission of drawings to Electrical inspectorate / KSEB and obtaining approval, arranging inspection for entire installation and other utilities, obtaining road cutting permission obtaining sanction orders for the electrical installation. Necessary power allocation, service connection, energising the installation from KSEB complete. Including all incidental expenses except the fees payable to the electrical inspectorate with valid receipts from the authorities.	Job	1		
	TOTAL - ELECTRICAL WORKS				