

**UPGRADATION OF KOZHIKODE MEDICAL COLLEGE-  
RENOVATION OF EXISTING TERRACE AREA IN SURGERY DEPARTMENT CONVERTING TO CANTEEN  
FACILITIES**

**PART B - ELECTRICAL WORKS**

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
1	<b>Point wiring in PVC conduit, with Modular type switch:</b> 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 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required				
a	<b>Group C</b>	Point	38		
2	<b>Circuit Sub main wiring in PVC Conduit :</b> Wiring for circuit sub main wiring alongwith earthwire with the following sizes of 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	Rm	100		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
b	2x2.5 sq mm +1x 2.5 sq.mm earth wire	Rm	200		
c	2x4 sq mm +1x 4 sq.mm earth wire	Rm	150		
d	4x6 sq mm + 2x6 sq mm earth wire	Rm	30		
e	4x10 sq mm + 2x10 sq mm earh wire	Rm	30		
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel / PVC conduit as required.				
a	3 x 1.5 sq. mm	Rm	40		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
4	Supplying and drawing following pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	2 Pair	Rm	50		
5	<b>S/F PVC conduit</b> : 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.				
a	20 mm	Rm	60		
6	<b>S/F Modular type switch/ socket</b> : Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
a	<b>Telephone socket outlet</b>	Each	2		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
7	<b>S/F Modular type blanking plates :</b> Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	5		
8	<b>S/F Modular boxes, base &amp; cover plate :</b> Supplying and fixing following size/modules,GI box along with modular base, cover plate for modular switches in recess etc as required.				
a	1 or 2 module( 75 mmx75 mm)	Each	16		
9	<b>S/F light plug point modular type accessories :</b> Supplying and fixing suitable size G. I 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,painting etc as required, (For light plugs to be used in non residential buildings }.	Each	21		
10	<b>S/F Power plug point with modular type switch :</b> Supplying and fixing suitable size G. I box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16& 5/6 amps modular socket outlet and 15/16 amps modular switch, connection,painting etc as required.	Each	6		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
11	<b>S/F Ceiling rose</b> : Supplying and fixing 3 pin , 5 amps ceiling rose on the existing junction box / wooden block including connection etc as required.	Each	8		
12	<b>ITC Fluroscnt fitting directly on surface</b> : Installation testing and commissioning of pre - wired, fluroscnt fitting/ compact fluroscnt fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq mm FRLS PVC insulated, copper conductor, single core cable and earthing etc as required.	Each	33		
13	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
a	<b>Upto 450 mm sweep</b>	Each	2		
14	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.)				

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
a	4 way (4 + 12), Double door	Each	1		
15	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)				
a	4 way (4 + 12), Double door	Each	3		
16	<b>S/F 'C' series, MCB</b> : 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	<b>Single pole</b>	Each	21		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
b	<b>Triple pole</b>	Each	3		
17	<b>S/F SP MCB blanking plate</b> : Supplying and fixing single pole blanking plate in the existing MCB DB complete etc as required.	Each	18		
18	<b>S/F FP MCB isolator</b> : 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	<b>40 amps</b>	Each	3		
b	<b>63 amps</b>	Each	1		
19	<b>S/F FP RCCB</b> : Supplying and fixing following rating, four pole, 415 volts, residual current circuit breaker { RCCB }, having a sensitivity current up to 300 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
a	<b>25 amps</b>	Each	1		
b	<b>40 amps</b>	Each	2		
20	<b>S/F 20A SPN MCB industrial socket outlet</b> : Supplying and fixing 20 amps, 240 Volts, SPN industril type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 'C' series, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	Each	5		
21	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	Each	120		
22	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
a	Upto 35 sq. mm (clamped with 1mm thick saddle)	Rm	60		
23	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 35 sq. mm (32mm)	Each	2		
24	Supply of 2x36 W, indoor decorative recess mounted direct indirect downlight luminaire with translucent acrylic diffuser, powder coated CRCA body light fixture, 2 nos 36 W CFL lamps, electronic HPF ballast, prewired complete with all necessary accessories suitable for operation on 230V, 50Hz AC supply as required (Wipro WVP 76236 SGA or equivalent in Philips/ Bajaj/ Crompton Greaves).	Each	4		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
25	Supply of 2x18W recessed downlight fixtures with sturdy PCD housing, satin finish reflector, enclosed gear compartment, removable front frame with recessed frosted glass complete with ballast, lamp holder, 18W CFL lamp with all accessories as required. (Wipro WCP 27218 SG or equivalent in Philips/ Bajaj/ Crompton Greaves).	Each	24		
26	Supply of 1x28W Indoor decorative luminaire suitable for T5 and T8 lamps with all accessories like lamp holder, 28W lamp etc prewired complete. (Wipro WRF 80128 SG or equivalent in Philips/ Bajaj/ Crompton Greaves).	Each	4		
27	Supply of 1x11W Mirror Light made of White powder coated CRCA sheet steel housing with opal acrylic diffuser and decorative end plates. Plastic housing wired with ballast with all accessories and 11W lamp etc prewired complete. (Bajaj BJEXL 111 or equivalent in Philips/ Wipro/ Crompton Greaves).	Each	1		
28	Supply and installation of 3 Wings , 400mm Sweep, Decorative Wall Mounted fan with cords for Control with all accessories similar to Usha Helix Hi speed or Equi.	Each	11		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
29	Supply of 250mm sweep, 1250 rpm, louvered ventilating fan suitable for single phase 230 volt, 50Hz AC supply complete with motor, capacitor, louvers/ shutters and all accessories as required complete. (Usha Crisp Air or equivalent in Crompton Greaves)	Each	1		
30	Supply of heavy duty exhaust fan 450 mm sweep, 1400 rpm, of approved colour and quality (Usha Turbo Heavy Duty or equivalent in Crompton Greaves )	Each	1		
31	<b>S/F PVC Holder</b> : Supplying and fixing of PVC batten/ angle holder.	Each	2		
32	Supply and fixing 15 Watts ISI marked Compact Fluroscnt Lamp (CFL), of approved quality.	Each	2		

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
33	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (Part 1) amended upto date.				
a	3.5 X 35 sq. mm	Rm	60		
34	Supply, installation, testing and commissioning of Air Cooled High Wall mounted Split Air Conditioner of following capacity consisting of high wall mounted type room unit (fan coil) with cordless remote control and one number outdoor condensing unit comprising of energy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, fixing the outdoor unit on a raised platform as per manufacturers recommendation and fixing of room (fan coil) unit on wall, upto 5 m distance refrigerant copper piping with 13mm nitrile rubber insulation, providing and making interconnection between room & condenser as per site conditions, comprising of 1" dia drain PVC pipe with insulation 5m, canvas connections, full electrical cabling from power plug near indoor unit and to outdoor unit, vibration isolators, ODU MS stand, first charge refrigerant gas, suitable stabilizer etc complete as required.				

S. No	Item Description	Unit	Qty	Rate Rs (in figures & words)	Amount
a	2 TR 5 Star Rated as per BEE	Each	6		
	<b>Total - Part B- Electrical works</b>				
	<b>Grand Total - Part A + Part B</b>				