

**TERITIARY CANCER CARE CENTRE AT GOVERNMENT MEDICAL COLLEGE HOSPITAL, KOZHIKKODE-
CONSTRUCTION OF ELECTRICAL PLANT ROOM**

PART B - ELECTRICAL WORKS

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
1. 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 sqmm, FRLS PVC insulated copper conductor single core cable etc. as required.	Point	10		
1.2	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.				
1.2.1	2 x 1.5 sq.mm + 1x1.5 sq.mm earth wire	m	30		
1.2.2	2 x 2.5 sq.mm + 1x 2.5 sq.mm earth wire	m	40		
1.2.3	2 x 4 sq.mm +1x 4 sq.mm earth wire	m	20		

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
1.2.4	2 X 6 sqmm + 1 x 6 sqmm earth wire	m	20		
1.2.5	4 x 4 sq mm + 2 x 4 sqmm earth wire	m	70		
1.3	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.				
1.3.1	20 mm	m	30		
1.3.2	25 mm	m	30		
1.3.3	32 mm	m	20		

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
1.4	Supplying and fixing metal box of following sizes (nominal size) on surface or in recesss with suitable size of phenolic laminated sheet cover in front including painting etc as required.				
1.4.1	200mm x 150mm x 60mm deep	Each	1		
1.5	Supply and fixing 1 or 2 module, GI box alongwith modular base & cover plate for modular switches in recess etc as required	Each	2		
1.60	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.	Each	4		
1.7	Supply and fixing 3 pin, 6A ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	10		

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
1.8	Installation, testing and commissioning of prewired, fluorescent fittings/ compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connections with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	10		
1.9	Providing and fixing extra conduit down rod of 20mm dia, 2 x10 cm length wiring with 2x1.5 sqmm FRLS PVC insulated, copper conductor, single core cable including painting etc as required. (Note: More than 5 cm length shall be rounded to the nearest 10cm and 5cm or less shall be ignored)	Each	6		
1.10	Installation of exhaust fan upto 450mm sweep in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. up to 450 mm sweep	Each	4		
2. MCCB, MCB & DBs					
2.1	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 busbar, neutral busbar, earth bar, din bar, interconnection, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)				

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
a	4 way Double Door	Nos	1		
2.2	Supplying and fixing following way surface/ recess mounted vertical type, 415 volt, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200amps tinned copper busbar, 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).				
a	4 way Double door	Each	1		
2.3	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	30		

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
b	Double pole	Each	2		
c	Triple pole	Each	1		
d	Triple pole and neutral	Each	2		
2.4	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	4		
2.5	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	40 amps	Each	1		

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
2.6	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	1		
2.7	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		
b	40 amps	Each	1		
2.8	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.				

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
a	25 amps	Each	1		
b	40 amps	Each	1		
2.9	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 16/25/32 amps 415 volts, "C" curve FP MCB complete with connections, testing and commissioning etc as required.	Each	1		
3. LIGHT FITTINGS & FANS					
	The light fixtures shall be complete with electronic ballast, lamp holder, lamps, starters, condenser to improve power factor etc duly wired up for use on 240V single phase 50 Hz AC supply. All fittings should be fitted with electronic ballast of THD less than 10%				
3.1	Supply of 28W T5 Surface mounting fluorescent luminaires with CRCA sheet steel box type fitting including all necessary accessories complete. (Wipro WIF 20128 SG/ Philips TMS122M lxTL5-28W EBE/ Bajaj BTER 128)	No	10		

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
3.2	Supplying and fixing PVC batten/ angle holder including 11W CFL lamp, connection etc as required.	No	2		
3.3	Supply and installation of Wall fan 400 mm sweep, 230V.1Ph, complete with Openable mesh Cover ,string Operated etc complete as required. (Crompton Hiflo LG/ Usha Maxx Air/ Bajaj RushAir (HS))	No	1		
3.4	Supply and fixing of 200 mm sweep ventilating fan with ABS body, impeller, louvre shutter etc complete with louvers and cable from ceiling rose/ connector to fan etc complete as required. (Crompton Brisk Air/ Almonard/ Usha Crisp Air)	No	1		
3.5	Supply of 450 mm sweep, 900 rpm Heavy Duty Industrial type air exhaust fan complete with louvers and cable from ceiling rose/ connector to fan etc complete as required. (Crompton HDEF/ Almonard/ Usha Turbo heavy duty).	Nos	2		
	TOTAL				