

**CONSTRUCTION OF FRONT SIDE COMPOUND WALL & GATE FOR PROPOSED REGIONAL SCIENCE
CENTRE, CHALAKUDY**

PART II - ELECTRICAL

SI NO	Description	Unit	Quantity	Rate (Rs) in Figures and words	Amount in Rs.
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.				
	Group C	Point	8		
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required				
a	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	30		
b	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	30		

3	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
	2 Pair	Metre	150		
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.				
	20 mm	Metre	50		
5	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a	5/6 amps switch	Each	1		
b	3 pin 5/6 amp socket outlet	Each	1		

c	Telephone socket outlet	Each	1		
6	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	1		
7	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	2		
8	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.				
	1 or 2 Module (75mmX75mm)	Each	1		
9	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
	1 or 2 Module	Each	1		

10	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	1		
11	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	8		
12	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	1		
13	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
	Upto 450 mm sweep	Each	1		
14	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.				
	100 Amp, 16 KA,TPMCCB	Each	1		

15	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.)				
	8 way (4 + 24), Double door	Each	1		
16	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	2		
b	Triple pole	Each	7		
17	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. with charcoal/ coke and salt as required.	Each	1		

18	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Metre	5		
19	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	10		
20	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.				
	Upto 35 sq. mm	Metre	10		
21	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.				
	Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	10		
22	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.				

	4 X 25 sq. mm (28mm)	Each	1		
23	Supply fixing of Ceiling Fan (1200mm) complete fitting in the existing ceiling wall opening with 30cm downrod and all required materials complete etc. as required.				
	Make: CROMPTON/USHA or approved equivalent make	Each	1		
24	Supply fixing and testing of 1x28W T5 Light complete fitting in the existing ceiling/wall with all required materials complete and connecting from existing point to the fittings with 3x1.5 sq.mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.				
	Philips-my wall light 1xTL 28W HF or Equivalent approved make	Each	1		
25	Supply of EXHAUST FAN (150mm) PVC complete fitting with all required materials complete . Make: CROMPTON EX 150 BRISK AIR or approved equivalent make	Each	1		

26	Supply fixing and testing of 1x11W Light complete fitting in the existing ceiling/wall with all required materials complete and connecting from existing point to the fittings with 3x1.5 sq.mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required. 1x11W CFL Light Fitting Make: Philips/Bajaj or Equivalent approved make	Each	1		
27	Supply fixing and testing of 1x9W Bulk Head Light complete fitting in the existing ceiling/wall with all required materials complete and connecting from existing point to the fittings with 3x1.5 sq.mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required. Make: Philips Bulkhead NXC 101, Type FXC101 IXPL-S/2P 9W AC GR or approved equivalent make	Each	4		
	TOTAL FOR PART-II ELECTRICAL WORKS				