

**PONDICHERRY UNIVERSITY  
ELECTRICAL WING**

**Schedule of Work**

**Name of the Work :** Internal and External Electrification work of new Canteen Building near School of Management at University Campus.

Sl. No.	Description of Items	Qty	Unit	Rate	Amount
1.	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. (Group C) make: MK / Legrand.	72 Pts.	Points		
2.	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 modular switch. b. 5/6 amps 3 pin modular socket.	17 nos. 17 nos.	Each Each		
3.	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding, modular plate etc., as required.	15 nos.	Each		
4.	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	25 nos.	Each		
5.	Supplying and fixing following size modules, GI box along with modular base & cover plate for modular switches in recess etc as required. Make :( MK / Legrand.) a. 3 module box. b. 5 module box.	10 nos. 10 nos.	Each Each		
6.	Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recess conduit including cutting the wall and making good the same in case of recessed conduit as reqd. a. 20mm b. 25mm	220 m 100 m	Mts Mts		
7.	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC conduit as required. Wire Make: Polycap / RR Kable. a.3x1.5sqmm b.6x1.5sqmm c.9x1.5sqmm d.3x2.5sqmm e.6x2.5sqmm	100 m 60 mts. 40 mts. 120 m 20 m	Mts Mts Mts Mtrs Mtrs		

8.	Power plug wiring in PVC conduit (2x4 sq.mm) Wiring for light/power plug with 2 x 4 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit along with 1 No. 4 sq.mm FR PVC insulated copper conductor single core cable for loop earthing etc as required.	70 mts	Mts		
9.	Power plug wiring in PVC conduit (4x4 sq.mm) Wiring for light/power plug with 4 x 4 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit along with 2 No. 4 sq.mm FR PVC insulated copper conductor single core cable for loop earthing as required.	60 mts	Mtr		
10.	Wiring for circuit/ submain wiring alongwith earth with wire the following sizes of FR PVC insulated copper conductor single core cable in surface/recess PVC conduit as required. a. 2 x 6 sq mm +1 x 6 sq mm earth wire	25 mtr	Mtr		
11.	Supplying, installation, testing and commissioning of surface/ recess mounting,8 way Double Door vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly phosphatized and powder painted, inclusive of 200 amps tinned copper busbar, common neutral link, earth bar, din bar for mounting MCB's, detachable gland/ knock out plate, and with 63 amps, 25 kA MCCB as incomer interconnections between incomer MCCB and busbars of following ways (but without MCB's) as reqd. (Legrend/Hager) Make: (MDS Cat no. 6077 91, MCCB Cat no.6253 39).	1 no.	Each		
12.	Supplying and fixing 8 way, Double Door single pole and neutral, prewired, sheet steel, MCB distribution board, 240 volts, on surface/recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc as reqd. (But without MCB/RCCB/Isolator).(Legrand/Hager) Make: (MDS Cat no. 6077 11).	1 no.	Each		
13.	Supplying and fixing 40 amps, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as reqd.(Legrand/Hager) Make : (MDS Cat no. 6040 02).	1 no.	Each		
14.	Supplying and fixing 20amps, 240 volts, SPN industrial 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 out let and complete with connections, testing and commissioning etc. as required.(Legrand/Hager) ( MDS Cat no. 6078 41).	5 nos.	Each		

15.	Supplying and fixing 6 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive loads of Single Pole in the existing MCB DB complete with connections, testing and commissioning etc. as required.(Legrand/Hager) (MDS Cat no. 6032 31 – 37)	23 nos.	Each		
16.	Supplying, installation testing and commissioning of following prewired fluorescent fittings with all accessories and tubes etc., directly on wall, including connections with 1.5 sqmm PVC insulated, copper conductor, single core cable etc., as required  a)1 X 40 Watts box type fluorescent fitting (crompton cat IGP 1414 HSB or Philips cat no. TMS 021/136LPF).  b) 2 X 40 Watts / 36 Watts box type fluorescent fittings <b>(Philips Cat No. TMS 021/236 LPF or Crompton Cat No. IGP1424 HSB)</b>  c) 2 X 40 Watts / 36 Watts mirror optic fluorescent recess fittings ( Crompton cat No. CRF G1324 HSB Philips cat No. TBS 518/236 HF-E)	11 nos.	Each		
		9 nos.	Each		
		8 nos.	Each		
17.	Supplying, installation, testing and commissioning of surface mounting type luminaire suitable for 2 Nos. 36w CFL lamps with all accessories and lamps, directly on ceiling/wall including wiring with 1.5 sq mm PVC insulated copper conductor single core cable etc as required. (Philips cat no. FBS 470 / 236 D6 HF (AG)	3nos	Each		
18.	Supply, Installation, testing and commissioning of 1200mm sweep ceiling fan, including wiring the down rod of length upto 1.20 mtr with 1.5 sq.mm PVC insulated, copper conductor FRLS single core cable etc. as reqd. (With resistance type regulator) <b><u>[Accepted makes: Crompton (RIVERA model)/ Orient (SUMMER COOL model)]</u></b>	13nos	Each		
19.	Supply, Installation testing & commissioning of industrial type exhaust fan of 300mm sweep, 1400 RPM with metallic blade and Louver/grill etc., in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connections, testing, commissioning etc. as required (Exhaust fan shall be of <b>Bajaj/USHA/Crompton Only</b> )	1 no.	Each		
20.	Supply, Installation testing & commissioning of industrial type exhaust fan of 450mm sweep, 1400 RPM with metallic blade and Louver/grill etc., in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connections, testing, commissioning etc. as required (Exhaust fan shall be of <b>Bajaj/USHA/Crompton Only</b> )	2 nos.	Each		
21.	Installation, testing and commissioning of pre – wired, fluorescent fitting / compact fluorescent fortting of all types, complete with all accessories and tube etc., directly on ceiling / wall, including connection with 1.5 sq.mm FRPVC insulated, copper conductor, single core cable and earthing etc., as required.	20 nos.	Each		

22.	Supplying, installation, testing and commissioning of SV lamp on existing inner wall of building. Including supplying and fixing suitable GI pipe bracket made out of 40mm dia "B" class GI pipe 1.2 mtr. Length bent to required shape and with necessary clamps with bolts and nuts for fixing on wall giving connection with 2x2.5 sq mm wire, testing painting the bracket etc., as reqd. ( SV lamp fitting shall be of Philips cat No. SRX 066 / 70 (E) 1 x SON / SON-T 70W (E).	5 nos .	Each		
23.	Supplying and fixing cable looping box of size (145mm x 145mm x 100mm deep ) with 4 way SMC terminal block and one no. 16A porcelain kit-kat fuse unit as required.	5 nos.	Each		
24.	Supply & Laying of one number PVC insulated and PVC sheathed armored aluminum conductor power cable 1.1 KV grade of size 4 x 50sqmm direct in ground i/c excavation sand cushioning protective covering and refilling the trench etc as reqd.	60 mtr	Mtr		
25.	Supply & Laying of one number PVC insulated and PVC sheathed armored aluminum conductor power cable 1.1 KV grade of size 3.5 x 50 sqmm on surface/Pipe/trench etc as reqd.	15 mtr	Mtr		
26.	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed/XLPE allu conductor cable of 1.1kv grade as required. a. 3.5 x 50 sq mm	2 nos.	Each		
27.	Earthing with G.I. 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 etc. (but without charcoal or coke and salt ) as required.	1 set	Set		
28.	Extra for using salt and charcoal for G.I. or copper plate earth electrode as required.	1set	Set		
29.	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode, as required.	10mtr	Mtr		
30.	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc as required.	8mtr	Mtr		
			Total		

**CONTRACTOR**

**REGISTRAR**