

**PONDICHERRY UNIVERSITY  
ELECTRICAL WING**

**SCHEDULE OF WORK**

**Name of Work:** Rewiring & replacement of electrical fixtures in the Estate office building.

Item No.	Description of Item	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 medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group C.	40Pt.	point		
2.	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable and 1.5 sq.mm FR PVC insulated copper conductor single core cable as earth wire in existing surface / recessed steel/ PVC conduit, including dismantling as required. Group -C Make: Polycab, Finolex, RR Kable. MK & Legrand.	80Pt.	point		
3.	Supplying and fixing following piano type switch/socket on the existing switch box/ cover including connections etc. as required. Make: Anchor/ Kundan. a. 5/6 amps switch b. 15/16 amp switch c. 3 pin 5/6 amps socket outlet d. 6 pin 15/16 amps socket outlet e. Stepped type fan regulator.	225nos. 30nos. 150nos. 30nos. 50nos.	Each Each Each Each Each		
4.	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. 20 mm b. 25 mm c. 32 mm	200mtr 200mtr 90mtr	Mtr Mtr mtr		
5.	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting and suitable slot cutting etc as required. a. 180mm x 100mm x 60mm deep b. 200mm x 150mm x 60mm deep	20nos. 35nos.	Each Each		

6.	Providing and fixing on surface of the following size cable management system including all accessories such as external, bends etc., complete as required. Make: (Legrand/MK) Plastic Trunking 50mm x 50mm.	30mtr	Mtr		
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. a. 3 x 1.5 sq mm b. 6 x 1.5 sq mm c. 3 x 2.5 sq mm d. 3 x 4 sq mm e. 6 x 4 sq mm f. 3 x 6 sq mm g. 4 x 10 sq mm + 2 x 6 sq mm	200mtr 150mtr 250mtr 150mtr 150mtr 150mtr 60mtr	Mtr Mtr Mtr Mtr Mtr Mtr mtr		
8.	Supplying and fixing 3 pin, 5 amp. ceiling rose on the existing junction box/ wooden block including connection etc as required. Make: Anchor/ Kundan.	30nos.	Each		
9.	Supplying and fixing 20amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 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).	10nos.	Each		
10.	Supplying and fixing 3mm thick phenolic laminated sheet cover on existing switch box / junction box / adopter box etc as required.	6sq m	Sq m		
11.	Supply, Installation, testing and commissioning of following prewired fluorescent fittings/ with all accessories and tubes etc. directly on false ceiling including connections with 1.5 sq.mm PVC insulated, copper conductor FRLS single core cable etc., as reqd. a) 1 X 40 Watts / 36 Watts Box type fluorescent fittings (Philips Cat No. TMS 0211xTL-D36W I or Crompton Cat No. DJB1214LSB) b) 2 x 36 W mirror optic recess type fluorescent fitting (Philips cat no. TBS518 2 x TL-D36W EBE. or Crompton cat no.CRFG14236EB) c) 2 x 36W CFL fittings (Philips cat no. FBS450 2 x PL-L36W IC D6 DF-OR or Crompton cat no. CRDI 11236EB/P5/CW).	65nos. 12nos. 1 nos.	Each Each Each		

12.	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, 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.	10nos.	Each		
13.	Supply, Installation, testing and commissioning of 1200mm sweep ceiling fan, including wiring the down rod with 1.5 sq PVC insulated, copper conductor FRLS single core cable etc. as reqd. (Crompton RIVERA/ORIENT SUMMER COOL).	50nos.	Each		
14.	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> )	3nos.	Each		
15.	Supplying, installation, testing and commissioning of SV lamp on existing outer wall of building. Including supplying and fixing suitable GI pipe bracket made out of 40mm dia "B" class GI pipe 1.2 mtr. length with suitable bracket, bent to required shape and with necessary clamps with bolts and nuts for fixing on wall giving connection with 3x2.5 sq mm wire, testing painting the bracket etc., as reqd. (SV lamp fitting shall be of Philips cat no. SGP301 1xSON70W PC.	4nos.	Each		
16.	Supplying, installation, testing and commissioning of surface/ recess mounting, following 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 interconnections between incomer and busbars of following ways (but without incomer and MCB's) as reqd. (Legrend/Hager).  a. 8 way MDS Cat no. 6077 91.  b. 8 way MDS Cat no. 6077 51.	2 nos.  1 nos.	Each  Each		
17.	Supplying and fixing 100Amps, three pole, 415 volt, 25ka MCCB, in the existing MCB DB complete with connections, testing and commissioning etc., as reqd. ( Leg rend/ Hager) MDS cat no.6253 40.	2nos.	Each		
18.	Supply and fixing 4 way MCB enclosure metal box.	4nos.	Each		

19.	Supplying and fixing of 4+12 way, pre wired single pole and neutral, sheet steel, MCB consumer unit, 240 volts, on surface / recess, complete with tinned copper busbar, neutral link, earth bar, din bar, hinged front Metallic double door for the MCB knobs, detachable gland plate, interconnections, including painting, earthing etc. as reqd. Make:(Legrand/Hager).	5nos.	Each		
20.	Supplying and fixing following rating, 'C' series, miniature circuit breaker suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as reqd. (Legrand/Hager). a. 63 amp 3 pole MCB. b. 40amp 2 pole MCB c. 40amp single pole MCB d. 6 amp to 32 amp single pole MCB. e. Single pole blanking plate.	2nos. 9nos. 6nos. 80nos. 81nos.	Each Each Each Each Each		
21.	Supplying and fixing following TPN/415/50HZ Switch Disconnected Fuse Unit with DIN type fuse including enclosure in the existing panel board and supplying fixing suitable size Alu bus linking from bus bar to switch. Make L&T, GE. a. 200A TPN SDFU	1no.	Each		
22.	Supplying and fixing of 125A TPN/415/50HZ Switch Disconnected Fuse Unit with DIN type fuse in the existing panel board and supplying fixing suitable size Alu bus linking from bus bar to switch. Make L&T, GE.	1no.	Each		
23.	Supply of following size of XLPE insulated, sheathed armoured UG aluminium conductor power cable 1.1 KV grade as required. (make: Polycab, Havells) a. 4 x 50 sq mm. b. 4 x 16 sq mm.	170mtr 50mtr	Each Each		
24.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable 1.1 KV grade of size exceeding 35 sq.mm but not exceeding 95sq.mm direct in ground i/c excavation, sand cushioning, protective covering and refilling the trench etc as reqd.	200mtr	Mtr		
25.	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size exceeding 25 sq. mm but not exceeding 400sq.mm in the existing RCC/HUME/STONEWEAR/METAL/ON SURFACE/IN SAME TRENCH as required.	30mtr	Mtr		

26.	<p>Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed/XLPE alu conductor cable of 1.1kv grade as required.</p> <p>a. 4 x 50 sq mm.</p> <p>b. 4 x 16 sq mm.</p>	2 nos.	Each		
27.	<p>Earthing with G.I. earth pipe 4.5 mtr long, 40 mm dia (medium class) including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.</p>	2 set	set		
28.	<p>Providing and fixing 8 SWG dia copper wire on surface or in recess for loop earthing as required.</p>	80m	mtr		
29.	<p>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 30cm x 30cm x 30cm at the bottom with 35mm x 35mm x 6mm iron angle 60 cm long and 10cm x 10cm x 6mm thick GI plate mark of (PU LT CABLE) fixed in the iron angle as required.</p>	15nos.	Each		
<b>Total</b>					