

**PONDICHERY UNIVERSITY  
ELECTRICAL WING**

**SCHEDULE OF WORK**

**Name of the Work:** Providing power point to the IPLS building near Science block for installation of research equipments in the University Campus.

Sl. No.	Description of Items	Qty	Unit	Rate	Amount
1.	Providing and fixing cable management system of size 50mm x 50mm with suitable accessories such as couplers, end caps, cable retainer at an interval of 0.5 meter as required. Make: MK / Legrand	100m	Mtr		
2.	Supplying and fixing following Modular front cover plates with modular PVC box suitable for fixing modular switch and socket in the existing wall/working desk etc., as required. Make: (MK/Legrand/Anchor)				
	a. 9 modular.	40nos.	Each		
	b. 6 modular.	30nos.	Each		
3.	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.	60nos.	Each		
	b. 5/6 amps 3 pin modular socket.	60nos.	Each		
	c. 15/16 amp switch.	120nos.	Each		
	d. 6 pin 15/16amp socket outlet.	120nos.	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. 25mm	150m	Mtr		
	b. 32mm	60m	Mtr		
5.	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. 3 x 2.5sq mm	150m	Mtr		
	b. 6 x 2.5sq mm	100m	Mtr		
	c. 3 x 4 sq mm	100m	Mtr		
	d. 6 x 4 sq mm	100m	Mtr		
	e. 3 x 6 sq mm	75m	Mtr		
	d. 6 x 6 sq mm	50m	Mtr		
	f. 4 x 10 sq mm + 2 x 6 sq mm	50m	Mtr		

6.	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, in6 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).	5nos.	Each		
7.	Supplying and fixing 12 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 CB/RCCB/Isolator).(Legrand/Hager) Make: (MDS Cat no. 6077 12).	7 nos.	Each		
8.	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 bus bar, common neutral link, earth bar, din bar for mounting MCB's, detachable gland/ knock out plate, (but without incomer and MCB's) as required. (Legrend/Hager). MDS cat no. 6077 51.	2nos.	Each		
9.	Supplying and fixing following pole, miniature circuit breaker in the existing MCB DB complete with connections, testing and commissioning etc. as reqd. (Legrand/Hager).  a. Double pole 40amps.  b. 3pole 63amps MCB  c. 5amps – 32amps single pole MCB  d. Single pole blanking plate.	14 nos.  4 nos.  50 nos.  20nos.	Each  Each  Each  Each		
10.	Supply, installation, testing and commissioning of following prewired fluorescent fittings/ with all accessories and tubes etc., directly on false ceiling including supporting chain / wall, including connections with 1.5 sq mm PVC insulated, copper conductor, single core cable etc., as required.  a. 2 X 40 Watts / 36 Watts mirror optic CFL recess fittings (Compton Cat No. CRFQ11236/P5 Philips cat no. FBS300 M 2xPL-L36W IC P5 )	4nos.	Each		
11.	Supplying and fixing of 125A TPN/415/50HZ Switch Disconnected Fuse Unit with DIN type fuse including suitable metal enclosure with adaptor box in the existing wall etc., as required Make L&T, GE.	2nos.	Each		

12.	Supply of one number PVC insulated and PVC sheathed/XLPE armored aluminum conductor power cable 1.1 KV grade of size 4 x 50 sq mm.	70m	mtr		
13.	Laying of one number PVC insulated and PVC sheathed armored aluminum conductor power cable 1.1 KV grade of size 4 x 50 sq mm direct in ground i/c excavation sand cushioning protective covering and refilling the trench etc as reqd.	30m	Mtr		
14.	Laying of one number PVC insulated and PVC sheathed armored aluminum conductor power cable 1.1 KV grade of size 4 x 50 sq mm on surface etc as reqd.	25m	Mtr		
15.	Laying of one number PVC insulated and PVC sheathed armored aluminum conductor power cable 1.1 KV grade of size 4 x 50 sq mm on existing trench/hume pipe etc as reqd.	15m	mtr		
16.	Supplying and fixing of 50mm dia medium class GI. Pipe on surface of wall for cable protection including accessories as required.	6m	mtr		
17.	Supplying and making end termination with brass compress ion gland and aluminum lugs for following size of PVC insulated and PVC sheathed/XLPE alu conductor cable of 1.1kv grade as required. a. 4 x 50 sq mm.	2 nos.	Each		
18.	Earthing with copper earth plate 600mm x 600mm x 3mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc., (but without charcoal or coke and salt) complete as required.	1 set	set		
19.	Extra for using charcoal and salt for G.I or copper plate earth electrode as required.	1set	set		
20.	Providing and fixing 25mm x 5mm copper strip in 40mm dia G.I pipe from earth electrode as required.	8m	mtr		
21.	Providing and fixing 25mm x 5mm copper strip on surface or in recess for connections etc., as required.	5m	mtr		
22.	Supplying and laying 8 SWG copper wire along with cable for loop earthing as required.	100m	Mtr		
23.	Supplying and making cable route marker with cement concrete 1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) of size 30cm x 30cm x 30cm at the bottom with 25mm x 35mm x 6mm iron angle 60cm long and 10cm x 10cm x 6mm thick GI plate with the inscription of LT CAB there on bolted / welded in the plat and fixing the same in ground as required.	5nos.	Each		
		<b>Total</b>			

