

**PONDICHERRY UNIVERSITY
ELECTRICAL WING**

SCHEDULE OF WORK

Name of Work: Providing power supply to the newly purchased special equipment and Faculty rooms in science block I Centre for Nanoscience & Technology.

Item No.	Description of Item	Qty.	Unit	Rate	Amount
1.	Supply installation testing and commissioning of air cooled 3KVA Spike free Servo controlled voltage stabilizer with following specifications. a. Single phase input, single phase output b. Input volt range of 170V-270V AC. c. Output voltage of constant 230V AC. d. Output voltage regulation + or - 1%. e. low voltage, high voltage cut off. f. Indoor, floor mounting type. g. Air cooling. h. Noise level <60dB at 1 meter. i. Shot circuit and overload protection. j. Digital metering to read input/output voltage & current. k. Servo control backed by solid stat Electronics.	3 nos.	Each		
2.	Supply installation testing and commissioning of air cooled 5KVA Spike free Servo controlled voltage stabilizer with following specifications. a. Single phase input, single phase output b. Input volt range of 170V-270V AC. c. Output voltage of constant 230V AC. d. Output voltage regulation + or - 1%. e. low voltage, high voltage cut off. f. Indoor, floor mounting type. g. Air cooling. h. Noise level <60dB at 1 meter. i. Shot circuit and overload protection. j. Digital/Analog metering to read output voltage. k. Servo control backed by solid stat Electronics.	3nos.	Each		
3.	Supplying and fixing 12 Modular front cover plates in modular computer desk and suitable size of slot cutting in the partition of the modular computer desk etc., as required. Make: (MK/Legrand)	50nos	Each		

4.	Supplying and fixing surface type 12 Modular, PVC box suitable for fixing modular front cover plate, switch and socket etc., as required. Make: (MK/Legrand)	50nos.	Each		
5.	Supplying and fixing following modular switch/socket on the existing modular plate & switch box/ including connections but including modular plate etc. as required. Make: (MK/Legrand) a. 5/6 amps modular switch. b. 5/6 amps 3 pin modular socket. c. 15/16 amps modular switch. d. 15/16 amps 6 pin modular socket.	100no 100no 75nos. 75nos.	Each Each Each Each		
6.	Supplying and fixing modular blanking plate on the existing modular front plate as required.	75nos	Each		
7.	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	60mtr 50mtr 30mtr	Mtr Mtr mtr		
8.	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 c. 6 x 2.5 sq mm e. 3 x 4 sq mm f. 6 x 4 sq mm	50m 20m 150m 100m 50m 50m	Mtr Mtr Mtr Mtr Mtr Mtr		

	d. 3 x 6 sq mm	50m	Mtr		
	h. 4 x 10 sq mm + 2 x 6 sq mm.	25m	mtr		
9.	Supplying and fixing of 12way pre wired, single pole and neutral, prewired, sheet steel, MCB double door distribution board, 240 volts, on surface/recess, complete with loose wire box, 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 6077 12.	1nos	Each		
10.	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) including dismantling the old DB. as required. (Legrend/Hager). a. MDS cat no. 6077 51. b.	4nos.	Each		
11.	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).	11nos.	Each		
12.	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. 40 amp Double pole MCB. b. 63 amp 3pole MCB. c. 6 amp to 32 amp single pole MCB. d. Single pole blanking plate.	2nos. 5nos. 40nos. 40nos.	Each Each Each Each		

13.	Supply and fixing 4 way MCB metal box.	2nos.	Each		
14.	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 80mm x 50mm.	25mtr	mtr		
15.	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 Bajaj/USHA/Crompton Only)	5nos.	Each		
16.	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		
17.	Extra for using charcoal and salt for G.I or copper plate earth electrode as required.	1 set	set		
18.	Providing and fixing 25mm x 5mm copper strip in 40mm dia G.I pipe from earth electrode as required.	8 mtr	mtr		
19.	Providing and fixing 25mm x 5mm copper strip on surface or in recess for connections etc., as required.	2mtr	mtr		
20.	Providing and fixing 25mm x 3mm copper strip on surface or in recess for connections etc., as required.	20mtr	mtr		
				Total	

A.E (E)