

**PONDICHERRY UNIVERSITY
ELECTRICAL WING**

SCHEDULE OF WORK

NAME OF WORK: Shifting, installing and testing of 30KVA DG set from old Earth Science Department to new building and providing additional power point to the modular computer table in the remote sensing & GIS Teaching Lab and research lab in the new building.

S.No.	Description of work	Qty.	Unit	Rate	Amount
1.	<p>Installing and Commissioning of 'Silent Type' Diesel Generating set of 30KVA from old earth Science building to new building including providing suitable foundation as required.</p> <p>Foundation: Excavation, providing brick work (in width 225 mm) in cement mortar 1:4 of size 2.5mtr length x 4mtr breath x 0.6mtr height and refill with sand of 300mm height and providing 100mm PCC (1 cement:3coarse sand :6graded stone aggregate 40mm normal size) and than a PCC foundation (1:2:4, M-20 grade) of approximate depth of 200mm is required so as to provide leveled surface for placement of the acoustic enclosure. About the 200 mm foundation height should be above ground level. Cement plasting, painting around the brick work as required. The length and breadth of foundation should be 2.50m x 4.m.</p> <p>Shifting: Dismantling the connection and lifting of Enclosure type 30KVA DG set by means of Crain and transport with suitable load carrier for a distance of 0.5Km and unloading in the foundation provided in the new location without any damage as required.</p>	1 set	set		
2.	<p>Dismantling, shifting and erection of AMF panel of size 1mtr length x 1.5mtr height from old Earth Science dept to new building with supporting with MS 'L' angle in the wall of size 65mm x 65mm, 600mm length at two bottom end of the panel board as required.</p>	1 job.	job		
3.	<p>Supplying and fixing 6 Modular front cover plates in modular computer desk / modular box with suitable size of slot cutting in the partition of the modular computer desk etc., as required. Make: (Anchor/Legrand/MK)</p>	30 nos.	1 no.		

4.	<p>Supplying and fixing following modular switch/socket on the existing modular plate & switch box/ including connections etc. as required. Make: (Anchor/Legrand)</p> <p>a. 5/6 amps modular switch.</p> <p>b. 5/6 amps 3 pin modular socket.</p> <p>c. 15/16 amps switch</p> <p>d. 6 pin 15/16 amp socket outlet</p>	55 nos. 55 nos. 5 nos. 5 nos.	1 no. 1 no. 1 no. 1 no.		
5.	<p>Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/recessed steel/pvc conduit as required.</p> <p>Make: Polycab/Finolex/RRKabel</p> <p>a. 3core 1.5sqmm flexible cable.</p>	75 mtr	1 mtr		
6.	<p>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. Make:(Legrend/Hager) MDS cat no. 6077 91.</p>	1 no.	No.		
7.	<p>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.</p>	1 no.	No.		
8.	<p>Supply & fixing of following rating C series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connection, testing and Commissioning etc., as required. Single Pole - (Legrand / Hager).</p> <p>a. 6A to 32A single pole MCB.</p> <p>b. 40A to 63A 3pole MCB.</p>	10 nos. 2 nos.	1 no. 1 no.		

9.	<p>Supplying PVC insulated PVC sheathed / XLPE aluminium conductor of 1.1KV grade armoured UG cable conforming to relevant ISI specifications as follows.</p> <p>Make: polycab/Havells/Universel/RRKable/ Finolex.</p> <p>a) 4 X 50sq.mm</p>	100mtr	1 mtr		
10.	<p>Laying of one number PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade of following size direct in ground including excavation, river sand cushioning, protective covering and refilling the trench etc as required. (Manual excavation.)</p> <p>a. Above 35sqmm and upto 95sq.mm</p>	20 mtr	1 mtr		
11.	<p>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.</p> <p>a. Above 35sqmm and upto 95sq.mm</p>	80 mtr	1 mtr		
12.	<p>Supplying and making end termination with double compression brass gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor UG cable of 1.1KV grade as required.</p> <p>a) 4 X 50sq.mm</p>	6 Nos.	1 no.		
13.	<p>Supply & Laying of 10 core Sensing cable of 2.5sq.mm multi strand copper armored cable including providing necessary gland and end termination.</p>	20 mtr	1 mtr.		
14.	<p>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., without coke or charcoal and salt complete as required.</p>	1 set	Set		
15.	<p>Earthing with G.I earth plate 600mm x 600mm x 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc., with coke or charcoal and salt complete required.</p>	2 sets	1 set		

16.	Providing & Fixing 25mm x 6mm Copper strip in 40mm size medium class G.I. Pipe from earth electrode including connection with brass nut, bolt, spring washer excavation and refilling etc. as required.	6 mtr	1 mtr		
17.	Providing & Fixing 25mm x 6 mm Copper strips on surface or in recess including connection with brass nut, bolt, spring washer etc., as required.	7 mtr	1 mtr		
18.	Providing & Fixing 25mm x 6mm G.I strip in 40mm dia size medium class G.I. Pipe from earth electrode including connection with brass nut, bolt, spring washer excavation and refilling as reqd.	6 mtr	1 mtr		
19.	Providing & Fixing 25mm x 6 mm G.I strips on surface or in recess including connection with brass nut, bolt, spring washer etc., as required.	15 mtr	1 mtr		
20.	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	40 mtr	1 mtr		
					Total