

**PONDICHERRY UNIVERSITY
ELECTRICAL WING**

SCHEDULE OF WORK

Name of Work: Providing security lighting around the path way provided by the horticulture wing and providing 3phase power supply for operating lawn mower in the VC's residence, Pondicherry University.

Item No.	Description of Item	Qty.	Unit	Rate	Amount
1.	Manufacturing and supplying street light pole of 3mtr long made from 50mm dia B class GI pipe with 200mm x 200mm x 10mm thick MS base plat welded at one end and suitable bracket at top with 32mm dia 40cm long as required. Provision for earthing, duly painted with a coat of zinc chromate primer and two coats of approved paint, providing and fixing SMC cable looping box of size 145mm x 145mm x 100mm deep with 4way SMC terminal block and one no. 1A single pole MCB, providing and fixing cable entry pipe made of 40mm dia medium class PVC pipe including erection with suitable cc foundation of depth 1mtr x 0.4mtr square (0.30m above ground level and 0.70m below GL) plastering, painting etc. as required. Make: (TATA, Zenith, Suriya Prakash)	22nos.	Each		
2.	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	70mtr	mtr		
3.	Supply of following size of XLPE insulated, sheathed armoured UG aluminium conductor power cable 1.1 KV grade as required. (make: Polycab, Havells) a. 2 x 16 sq mm. b. 4 x 16 sq mm.	500mtr 210mtr	Each Each		
4.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable 1.1 KV grade of following size direct in ground i/c excavation, sand cushioning, protective covering and refilling the trench etc as reqd. Upto 35sqmm.	420mtr	Mtr		

5.	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size in the existing PVC/GI pipe RCC/HUME /STONEWEAR/METAL/IN SAME TRENCH as required. Upto 35sq.mm	290mtr	Mtr		
6.	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. a. 2 x 16 sq mm. b. 4 x 16 sq mm.	55 nos. 4 nos.	Each Each		
7.	Supplying and fixing SMC cable looping box of size 300mm x 100mm x 100mm depth on wall with 1no. Triple pole 32A MCB with MCB base fixed in the SMC looping box and 1no. 32A 3P +E metal socket IP44 as required. Make: SMC box (Sintex, Devi). MCB, metal socket: Legrand.	2nos.	Each		
8.	Supplying and fixing of 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:(Legrend/Hager).	1no.	Each		
9.	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. 6 amp to 32 amp single pole MCB. c. Single pole blanking plate.	1no. 2nos. 7nos.	Each Each Each		
10.	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.	2 set	set		

11.	Providing and fixing 6 SWG dia GI wire on surface or in recess for loop earthing along with existing surface / recessed conduit/ submain wiring/ along the cable as required.	500m	mtr		
12.	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.	12nos.	Each		
				Total	