

**PONDICHERRY UNIVERSITY
ELECTRICAL WING**

SCHEDULE OF WORK

**Name of Work: Rewiring and replacing of fitting for the Department of
Drama building.**

Sl. No.	Description of Item	Qty.	Unit	Rate	Amount
1.	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.	55pt	point		
2.	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. Make: Avonplast Medium class. a. 20mm b. 25mm c. 32mm	150m 100m 50m	Mtr Mtr mtr		
3.	Supplying and fixing 12 Modular front cover plates with 12 modular PVC box on surface as required. Make: (MK/Legrand/Roma)	15nos.	Each		
4.	Supplying and fixing following modular switch/socket on the existing modular plate & switch box/ including connections but including modular plate etc. as required.				

	<p>Make: (MK/Legrand/Roma)</p> <p>a. 5/6 amps modular switch.</p> <p>b. 5/6 amps 3 pin modular socket.</p> <p>c. 15/16 amps modular switch.</p> <p>d. 15/16 amps 6 pin modular socket.</p>	<p>45nos.</p> <p>45nos.</p> <p>15nos.</p> <p>15nos.</p>	<p>Each</p> <p>Each</p> <p>Each</p> <p>Each</p>		
5.	<p>Providing and fixing cable management system of size 100mm x 50mm with suitable accessories such as couplers, end caps, cable retainer at an interval of 0.5 meter suitable for fixing socket outlets on mounting boxes but without switches, sockets and boxes. Make: Legrand/MK.</p>	<p>30m</p>	<p>mtr</p>		
6.	<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. Make: Polycab/finolex/RR Kable.</p> <p>a. 3 x 1.5 sq mm</p> <p>b. 6 x 1.5 sq mm</p> <p>c. 3 x 2.5 sq mm</p> <p>d. 3 x 4 sq mm</p> <p>e. 6 x 4 sq mm</p> <p>f. 3 x 6 sq mm</p> <p>g. 4 x 10 sq mm + 2 x 6 sq mm.</p>	<p>200m</p> <p>100m</p> <p>100m</p> <p>150m</p> <p>100m</p> <p>40m</p> <p>40m</p>	<p>Mtr</p> <p>Mtr</p> <p>Mtr</p> <p>Mtr</p> <p>Mtr</p> <p>Mtr</p> <p>mtr</p>		
7.	<p>Supplying and fixing following piano type</p>				

	<p>switch/socket on the existing switch box/ cover including connections etc. as required. Make: Anchor/ Kundan.</p> <p>a. 5/6 amps switch</p> <p>b. 2 way 5/6 amps switch</p> <p>c. 15/16 amp switch</p> <p>d. 3 pin 5/6 amps socket outlet</p> <p>e. 6 pin 15/16 amps socket outlet</p>	<p>60nos.</p> <p>2nos.</p> <p>15nos</p> <p>5nos.</p> <p>15nos.</p>	<p>Mtr</p> <p>Mtr</p> <p>Mtr</p> <p>Mtr</p> <p>mtr</p>		
8.	<p>Supplying and fixing 3 pin, 5 amp. ceiling rose on the existing junction box/ wooden block including connection etc as required. Make: Anchor/ Kundan.</p>	25nos.	Each		
9.	<p>Supplying and fixing 10 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 10 amps. SP MCB, in sheet steel enclosure, on surface or in recess, complete with connections, testing and commissioning etc., as reqd. Make:(Legrend/Hager).</p>	1no.	Each		
10.	<p>Supplying and fixing 20 amps, 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, complete with connections, testing and commissioning etc., as reqd. Make:(Legrend/Hager).</p>	12nos.	Each		
11.	<p>Supplying and fixing 3mm thick phenolic laminated sheet cover on existing switch box / junction box / adopter box etc as required</p>	4sqm	sqm		

12.	<p>Supply, Installation, testing and commissioning of following prewired fluorescent fittings/ with all accessories and tubes etc. directly on ceiling/ wall, including connections with 1.5 sq.mm PVC insulated, copper conductor FRLS single core cable etc., as reqd.</p> <p>a. a) 1 X 40 Watts / 36 Watts Box type fluorescent fittings (Philips Cat No. TMS 021/136 LPF or Crompton Cat No. IGP1414 HSB)</p>	40nos.	Each		
13.	<p>Supply, Installation, testing and commissioning of 1200mm sweep ceiling fan, including wiring the down rod with 1.5 sq.mm PVC insulated, copper conductor FRLS single core cable etc. as reqd. (With resistance type regulator)[<u>Accepted makes: Crompton (RIVERA model)/ Orient (SUMMER COOL model)]</u></p>	15nos.	Each		
14.	<p>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)</p>	2nos.	Each		
15.	<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</p>				

	<p>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).</p> <p>a. MDS cat no. 6077 51.</p>	2no.	Each		
16.	<p>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 Metalic double door for the MCB knobs, detachable gland plate, interconnections, including painting, earthing etc. as reqd. Make:(Legrend/Hager).</p>	1no.	Each		
17.	<p>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).</p> <p>a. 63 amp 3 pole MCB.</p> <p>b. 40amps 2 pole MCB</p> <p>c. 40amps single pole MCB</p> <p>d. 6 amp to 32 amp single pole MCB.</p> <p>e. Single pole blanking plate.</p>	2no.	Each		
		3no.	Each		
		1no.	Each		
		30nos.	Each		
		10nos.	Each		
18.	<p>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</p>				

	<p>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. SGP401 1xSONT250W.</p>	4nos.	Each		
19.	<p>Fabrication, supply, installation, testing and commissioning of MV compartmentalized cubicle panel board, free standing fabricated out of 2mm thick MS sheet steel, totally enclosed dust and vermin proof, suitable for operation on 3 phase 415 V, 4 wire AC supply system, having suitable cable entry arrangement with detachable gland plate, duly powder coated, including supply and fixing the following switch gear, interconnection with suitable size Aluminium strips/bars connections, suitable base frame earthing labeling etc with cable chamber, Aluminium busbar chamber conforming to section-4 of CPWD specification for Electrical works part IV substation 1982 etc., complete as required. Including dismantling the old panel as required. The panel size not less than 1m x 1.9m. Make :L&T.</p> <p><u>A. Incoming.</u></p> <ol style="list-style-type: none"> a. 250A TPN/415V/50Hz SDFU with DIN type HRC fuses- 1No. b. 0-500V, VAF meter with inbuilt selector switch, CTs and protective fuses etc -1set. Make :Conzerv c. Phase indicating lamps with switches.... 1 set. d. 300A 4 strip Aluminium Busbar chamber with necessary 				

	<p>interconnections ...1set.</p> <p><u>B. Outgoing.</u></p> <p>a. 125 A TPN/415V/50hz SDFU with DIN type HRC fuses..... 3 Nos.</p> <p>b. 200 A TPN/415V/50hz SDFU with DIN type HRC fuses..... 1 Nos.</p> <p>c. G.I.Earth bus of suitable size with earth studs at both ends 1 No.</p> <p>d. Danger notice plate 1 No.</p>	1job.	job		
20.	Supplying and fixing 250A TPN/ 415V/50HZ SDFU with DIN type HRC fuse in the existing feeder pillar with replacing lower rating switch and alter the compartment suitable for fixing the switch. Make : L&T.	1no.	Each		
21.	Supply of one number XLPE insulated, sheathed armoured aluminium conductor power cable 1.1 KV grade of size 3.5 x 70 sq. mm. as required. Make: Polycab/Havells.	140m	mtr		
22.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size not exceeding 70 sq. mm direct in ground including excavation, sand cushioning protective covering and refilling the trench etc as required.	110m	mtr		
23.	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size exceeding 70 sq. mm but not exceeding 400sq.mm in the existing RCC/HUME/STONEWEAR/METAL/ON SURFACE as required.	30m	mtr		
24.	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. 3.5 x 70 sq mm	2nos.	Each		
25.	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) as required.	2set.	Each		
26.	Extra for using salt and charcoal for G.I. or copper plate earth electrode as required.	2set	set		
27.	Providing and fixing 25 mm X 5 mm G I strip in 40 mm dia G.I. pipe from earth electrode, as required.	15m	mtr		
28.	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc as required.	15m	mtr		
29.	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.	7nos.	Each		
Total					

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