# PONDICHERRY UNIVERSITY <br> ELECTRICAL WING 

## SCHEDULE OF WORK

Name of Work: Providing power supply to the Air conditioner units for the Faculty room, strengthening the incoming supply and replacing the damaged DB's in Science Block I \& II at Pondicherry University.

| SI. <br> No. | Description of Item | Qty. | Unit | Rate | Amount |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | 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. <br> a. 20 mm <br> b. 25 mm <br> c. 32 mm | $\begin{aligned} & 150 \mathrm{~m} \\ & 200 \mathrm{~m} \\ & 130 \mathrm{~m} \end{aligned}$ | M+r <br> Mtr <br> M+r |  |  |
| 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. <br> a. $3 \times 4 \mathrm{sq} \mathrm{mm}$ <br> b. $6 \times 4 \mathrm{sq} \mathrm{mm}$ <br> c. $9 \times 4 \mathrm{sq} \mathrm{mm}$ | $\begin{aligned} & 200 \mathrm{~m} \\ & 175 \mathrm{~m} \\ & 130 \mathrm{~m} \end{aligned}$ | Mtr <br> Mtr <br> $m+r$ |  |  |
| 3. | Providing and fixing cable management system of size $50 \mathrm{~mm} \times 50 \mathrm{~mm}$ with suitable accessories such as couplers, end caps, cable retainer at an interval of 0.5 meter as required. make: MK / Legrend | 100m | mtr |  |  |
| 4. | 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 " $C$ " curve, 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. | 60nos | Each |  |  |
| 5. | Supplying, installation, testing and commissioning of surface/ recess mounting, following 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 busbar, common neutral link, earth bar, din bar for mounting MCB's, detachable gland/ knock out plate, and interconnections between incomer and busbars of following ways (but without incomer and MCB's) as reqd. (Legrend/Hager). <br> 8 way MDS Cat no. 607751 | 10nos | Each |  |  |



| 8. | Supplying and fixing of following TPN/415/50HZ Switch Disconnected Fuse Unit with din type fuse in the existing panel board/Feeder pillar as required. Make L\&T, GE. <br> a. 125 A SDFU. <br> b. 200A SDFU. <br> c. 315 A SDFU. | 5nos. <br> 1no. <br> 1no. | Each <br> Each <br> Each |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 9. | Supply of following size of XLPE insulated, sheathed armoured UG aluminium conductor power cable 1.1 KV grade as required. (make: Polycab, Havells) <br> a. $4 \times 25 \mathrm{sq} \mathrm{mm}$. | 200m | $m t r$ |  |  |
| 10. | 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. <br> a. Upto $35 \mathrm{sq} . \mathrm{mm}$ (clamped with 1 mm thick saddle) | 200m | $m t r$ |  |  |
| 11. | Supplying and making end termination with brass compress gland and aluminum lugs for following size of PVC insulated and PVC sheathed/XLPE alu conductor cable of 1.1 kv grade as required. <br> a. $4 \times 25 \mathrm{sq} \mathrm{mm}$. | 25nos | Each |  |  |
| 12. | Earthing with G.I. earth plate $600 \mathrm{~mm} \times$ $600 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 2set | 2set |  |  |
| 13. | Supplying and laying $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ G.I strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt \& spring washer spaced at 50 mm ) | 25m | $m t r$ |  |  |
| 14. | Providing and fixing $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required. | 12 m | $m t r$ |  |  |
| 15. | Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required. | 8set. | set |  |  |


| 16.Providing and fixing 4.00mm dia copper wire <br> on surface/ in PVC pipe / in recess for loop <br> earthing as required. | 200 m | mtr |  |  |
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| TOTAL |  |  |  |  |

