

**UNIVERSITY OF KERALA  
ENGINEERING UNIT, KARIAVATTOM**

**Tender Schedule for Electrical works for setting up of Computer lab in the Department of Education, Thycaud.**

| Sl. No | Qty | Specification  | Unit   | Rate | Amount |                                     |         |
|--------|-----|--|--|------|--------|-------------------------------------|---------|
| 1      |     | Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FR PVC insulated stranded single core copper conductor cable 650V grade, including <i>providing switch board main and continuous earthing with No.14 SWG bare copper</i> , required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, <i>modular type front plates (white)</i> etc. up to and including 6A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. <i>(Group B/ RoHS compliant modular accessories).</i> |  |      |        |                                     |         |
| a      | 4   | Nos  | Single control light point with 6A, 3 plate ceiling rose | E    | 841.00 | Rs Eight Hundred and Forty One only | 3364.00 |

|   |    |     |  |   |          |  |          |
|---|----|-----|--|---|----------|--|----------|
| 2 | 3  | Nos | Supply and installation of surface mounded 15W LED, 5700K light fittings on ceiling using suitable sizes steel screws cup washers and giving connections etc as required (Havells make integra surface)/ similar make of Bajaj/ Crompton/ philips/ Wipro) approved rate of Dept. of Physics utilizing RUSA Fund.   |   | 1788.00  | Rs One Thousand Seven Hundred and Eighty eight only  | 5364.00  |
| 3 | 2  | Nos | Supply, conveyance, installation, testing and commissioning of pre-wired 100 W LED <i>pressure die cast aluminium IP66 flood light fitting</i> complete with all accessories <i>in the existing angle iron frame work using suitable size GI bolt and nut with washers</i> and giving connections etc as required .(Bajaj make 169657 BARFEG 100W LED/ Philips/ Crompton/ Havells)   |   | 19236.00 | Rs Nineteen Thousand Two Hundred and Thirty Six only | 38472.00 |
| 4 |    |     | Supply, conveyance installation testing and commissioning the light fittings of following types made of CRCA with 0.5mm thickness complete with all accessories and lamps etc. directly on wall or ceiling with PVC <i>round block</i> neatly painted to suit the fitting and giving connection with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS and giving connections as required. |   |          |  |          |
| a | 4  | Nos | 1x28w T5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant,high lumen tube .   | E | 1717.00  | Rs One Thousand Seven Hundred and Seventeen only     | 6868.00  |
| 5 |    |     | Supply and fixing the following sizes of <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>on surface</i> including making good the damages etc as required.   |   |          |  | 0.00     |
| a | 60 | m   | 20 mm dia light gauge  | m | 83.00    | Rs Eighty Three only                                 | 4980.00  |

|   |    |   |   |   |        |                                       |         |
|---|----|---|---|---|--------|---------------------------------------|---------|
| 6 |    |   | Supply and fixing the following sizes of <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>in recess</i> including cutting the wall and making good the damages etc as required.  |   |        |                                       |         |
| a | 2  | m | 20 mm dia light gauge   | m | 120.00 | Rs One Hundred and Twenty only        | 240.00  |
| 7 |    |   | Supply and drawing 650/1100 V grade <i>PVC insulated stranded single core copper conductor cables</i> conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.                              |   |        |                                       |         |
| a | 30 | m | 1.50 sq mm 1 run ( earth wire)  | m | 45.00  | Rs Forty Five only                    | 1350.00 |
| b | 70 | m | 1.50 sq mm 3 run (computer plugs in tech lab)   | m | 77.00  | Rs Seventy Seven only                 | 5390.00 |
| c | 5  | m | 1.50 sq mm 6 run "  | m | 126.00 | Rs One Hundred and Twenty Six only    | 630.00  |
| d | 30 | m | 2.50 sq mm 1 run (Earth wire for LDB)   | m | 55.00  | Rs Forty Five only                    | 1650.00 |
| e | 30 | m | 2.50 sq mm 2 run (computer plugs in comp lab)   | m | 81.00  | Rs Eighty One only                    | 2430.00 |
| f | 30 | m | 4.00 sq mm 2 run (LDB main)   | m | 106.00 | Rs One Hundred and Six only           | 3180.00 |
| 8 |    |   | Supply and fixing <i>50 x 50 mm PVC Cable Management System</i> with base and lid along with the following accessories conforming to IEC 61084/ BS 476 & 4678 on surface / recess including cutting the wall and making good the damages in case of recessed installation as required.  |   |        |                                       |         |
| a | 5  | m | 50 x 50 mm CMS with base & lid  | M | 537.00 | Rs Five Hundred and Thirty Seven only | 2685.00 |
| 9 |    |   | Supply and fixing <i>100 x 50 mm PVC Cable Management System</i> with base and lid along with the following accessories conforming to IEC 61084/ BS 476 & 4678 on surface / recess including cutting the wall and making good the damages in case of recessed installation as required. |   |        |                                       |         |

|    |     |     |   |   |        |                                      |          |
|----|-----|-----|---|---|--------|--------------------------------------|----------|
| a  | 18  | m   | 100 x 50 mm CMS with base & lid   | M | 935.00 | Rs Nine Hundred and Thirty Five only | 16830.00 |
| b  | 2   | Nos | End Cap   | E | 92.00  | Rs Ninety Two only                   | 184.00   |
| c  | 18  | Nos | 8 module mounting box   | E | 251.00 | Rs Two Hundred and Fifty One only    | 4518.00  |
| 10 |     |     | Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required <i>(Group B/ RoHS compliant)</i>  |   |        |                                      |          |
| a  | 12  | Nos | 6 module moulded plastic box on surface   | E | 209.00 | Rs Two Hundred and Nine only         | 2508.00  |
| b  | 8   | Nos | 8 module moulded plastic box on surface   | E | 233.00 | Rs Two Hundred and Thirty Three only | 1864.00  |
| 11 |     |     | Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. <i>(Group B/ RoHS compliant)</i>  |   |        |                                      |          |
| a  | 12  | Nos | 6 module white/ off-white   | E | 152.00 | Rs One Hundred and Fifty Two only    | 1824.00  |
| b  | 26  | Nos | 8 module white/ off-white   | E | 187.00 | Rs One Hundred and Eighty Seven only | 4862.00  |
| 12 |     |     | Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required <i>(Group B RoHS compliant)</i>  |   |        |                                      |          |
| a  | 76  | Nos | 6 A SP 1 way switch   | E | 119.00 | Rs One Hundred and Nineteen only     | 9044.00  |
| b  | 102 | Nos | 6A 3 pin shuttered socket   | E | 157.00 | Rs One Hundred and Fifty Seven only  | 16014.00 |
| 13 |     |     | Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required |   |        |                                      |          |

|    |   |     |  |   |         |  |           |
|----|---|-----|--|---|---------|--|-----------|
| a  | 1 | Nos | 10 way single phase double cover (IP 42/43)  | E | 1689.00 | Rs One Thousand Six Hundred and Eighty Nine only   | 1689.00   |
| 14 |   |     | Supply and installation of the following <i>accessories</i> suitable for 50 Hz , AC supply conforming to IS 8828-1995/ IEC 60898 of the following current ratings in the existing enclosure and giving connections as required |   |         |  |           |
| a  | 1 | Nos | 40 A double pole mini break isolator   | E | 356.00  | RsThree Hundred and Fifty Six only                 | 356.00    |
| b  | 6 | Nos | 6-32A( C curve)  | E | 219.00  | Rs Two Hundred and Nineteen only                   | 1314.00   |
|    |   |     | S & F RCCB   |   |         |  |           |
| c  | 2 | Nos | 40 A, 2 pole, 30 mA RCCB   | E | 2357.00 | Rs Two Thousand Three Hundred and Fifty Seven only | 4714.00   |
|    |   |     | <b>Total</b>   |   |         |  | 142324.00 |

PAC Rs.1,42,324/- (Rs. One Lakh Forty Two thousand Three Hundred & Twenty Four only)

I/We agreed to execute the work.

1. ....% above the estimate rate.

2. ....% below the estimate rate.

3. At the estimate rate.

**CONTRACTOR**

**sd/-**  
**UNIVERSITY ENGINEER**