

**ELECTRIFICATION WORK AT PROJECT LAB, M TECH RESERCH LAB AND
MICROPROCESSOR LAB IN CS/IT DEPT. AT COLLEGE OF ENGINEERING
KIDANGOOR**

| SI.No. | ITEM SPECIFICATION | QTY | UNIT | RATE | AMOUNT |
|---------------|--|------------|-------------|-------------|---------------|
| I | DBs | | | | |
| | Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of 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. | | | | |
| i) | 12 Way SPN DB - Single phase double cover (IP 42/43) - | 3 | Nos | 1899.00 | 5697.00 |
| ii) | 6 way single phase double cover (IP 42/43) | 2 | Nos | 1456.00 | 2912.00 |
| iii) | 4way(8+12)-VTPN Three phase double cover (IP 54) | 1 | Nos | 7739.00 | 7739.00 |
| II | DB Accessories | | | | |
| | Supply and installation of the following accessories 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 | | | | |
| 1 | 100A 25kA FP MCB isolator | 1 | Nos | 1246.00 | 1246.00 |
| 2 | 63 A FP Isolator | 2 | Nos | 752.00 | 1504.00 |
| 3 | 40A FP Isolator | 5 | Nos | 716.00 | 3580.00 |
| 4 | 25A 2p Isolator | 2 | Nos | 342.00 | 684.00 |
| 5 | 40A 4 Pole100mA RCCB | 5 | Nos | 2881.00 | 14405.00 |
| 6 | 63A 4 Pole 100mA RCCB | 5 | Nos | 3306.00 | 16530.00 |
| 7 | 63A 10KA TP MCB | 2 | Nos | 1369.00 | 2738.00 |
| 8 | 40A 10kA TP MCB (C curve) | 1 | Nos | 1369.00 | 1369.00 |
| 9 | 25A 10kA TP MCB (C curve) | 1 | Nos | 919.00 | 919.00 |
| 10 | 6A to 32 A 10kA SP MCB (C curve) | 44 | Nos | 273.00 | 12012.00 |
| 11 | 40A 10KA DP MCB (C curve) | 1 | Nos | 1751.00 | 1751.00 |
| 12 | 25A 10KA DP MCB (C curve) | 4 | Nos | 957.00 | 3828.00 |
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| III | Cable END Box | | | | |

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| | Supply and installtion of Cable end boxes for Vertical DBs | 1 | Nos | 5682.00 | 5682.00 |
| IV | MV CABLES - SUPPLY AND LAYING | | | | |
| | Supply ,laying and clamping of 1 no XLPE insulated and PVC sheathed armoured aluminium power cable 1.1 KV grade of the following size using clamps noted along with the cables spacing of clamps not exceeding 60cms ,making good the damages ,colour washing etc as required | | | | |
| 1 | 3.5 core 70sq mm | 60 | mtr | 502.00 | 30120.00 |
| 2 | 3.5core 35 sq mm | 10 | mtr | 316.00 | 3160.00 |
| 3 | 3.5core 50sq mm | 10 | mtr | 393.00 | 3930.00 |
| 4 | 4 core 25 sq mm | 10 | mtr | 281.00 | 2810.00 |
| 5 | 4 core 16 sq mm | 10 | mtr | 231.00 | 2310.00 |
| V | MV CABLES - END TERMINATIONS | | | | |
| | Supplying and installtion of seimens/tropodur type nickel palted single compression brass cable gland for the following sqmm PVC insulated and PVC sheathed armoured aluminum/ copper conductor cable 1.1KV grade and making end termination suitable for 2/3/3.5/4 core cable of the following sizes as required including earth clamps for siemens /tropodur type cable glands for suitable length and other dimensions noted along with each size of glands for the for 16 sq.mm with 12mm wide x 1 mm thick clip and including superoior quality aluminium tubular cable socket and making core termination of cable of the following sizes including crimping etc .as required | | | | |
| a | 70 Sq mm | 2 | nos | 715.00 | 1430.00 |
| b | 50 sq mm | 2 | nos | 650.00 | 1300.00 |
| c | 35 sq mm | 2 | nos | 490.00 | 980.00 |
| d | 25 sq mm | 2 | nos | 475.00 | 950.00 |

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| e | 16 sq mm | 2 | nos | 350.00 | 700.00 |
| VI | SUB MAIN WIRING | | | | |
| | Supply and drawing 650/1100 V grade PVC insulated stranded single core copper conductor FRLS cables conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes. | | | | |
| a | 2.50 sq mm 2 run+1.50 sqmm green Cu wire (Computer point+ Power plug) | 339.366 | m | 126.00 | 42760.00 |
| b | 10.00 sq mm 2 run | 260 | m | 227.00 | 59020.00 |
| c | 6.00 sq mm 2 run | 110 | m | 144.00 | 15840.00 |
| d | 6.00 sq mm 4 run | 290 | m | 260.00 | 75400.00 |
| VII | PVC CONDUITS AND ACCESSORIES | | | | |
| | Supply and fixing the following sizes of medium guage PVC Conduit conforming to IS 9537/1983 part III along with all required accessories on surface including making good the damages etc as required | | | | |
| a | 20 mm | 150 | m | 41.00 | 6150.00 |
| b | 25 mm | 50 | m | 49.00 | 2450.00 |
| c | Supplying and clamping the 50 mm dia of corrugated PVC flexible conduit with necessary compression gland with locking ring and check nut at termination pointed using suitable size GI / painted MS saddles spacing not exceeding 60 cms on surface including making good the damages, colour washing etc. as required. | 70 | m | 156.80 | 10976.00 |
| d | Supply and Fixing rigid pvc Trunking on wall as per discription in drawing size 50x50 mm white colour with all acessories including fixing screw washer ect.(MK or precision make) | 120 | m | 150.00 | 18000.00 |

| VIII | Industrial plug & socket Approved Make:Legrand/L&T | | | | |
|-------------|--|----|-----|----------|----------|
| | Supply and fixing SP & N/TP & N metal case enclosure with 2/4 pole and earth plug socket with pin suitable for incorporating , DP/4P MCB (excluding cost of DP/4P MCB) in surface/ recess including giving necessary connections, making good the damages etc. as required. (For AC, UPS & ATM Supply termination) | | | | |
| a | 415V,40A,4 pole and Earth/ Four pole enclosure | 5 | Nos | 983 | 4915.00 |
| b | 40A FP MCB (C curve) | 5 | Nos | 1926 | 9630.00 |
| c | Charges for cutting holes suitable for accommodating exhaust fans of sizes up to 305 mm sweep including plastering, colour washing etc. as required. | 2 | E | 294 | 588.00 |
| d | Supply conveyance installaion and testing of 300/ 305 mm, single phase light duty exhaust fan in metal frame (Group A) | 2 | E | 1466 | 2932.00 |
| IX | COMPUTER POINTS | | | | |
| a | Supply and installation of 3nos 6A 3 pin sockets controlled by 1 no16A SP control switch in single company made surface box with front and inner plate etc complete in position and giving connection using modular accessries. (For computers outlets) | 43 | nos | 1,100.00 | 47300.00 |
| X | SOCKET OUTLETS | | | | |
| a | Supply and installation of 16A 3 pin plug point in with 16A control switch in company made metal box. | 1 | nos | 825 | 825.00 |

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| | b | Supply and installation of 5/6A 3 pin plug point in independent position with control switch including cost of pipe, wires earth wires MS box, front plate switch socket ect . Complete as required. | 7 | nos | 496 | 3472.00 |
| XI | | 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 (Group B) | | | | |
| | a | 2 module metal box in recess | 5 | nos | 141.40 | 707.00 |
| | b | 3 module metal box in recess | 5 | nos | 148.00 | 740.00 |
| | c | 4 module metal box in recess | 5 | nos | 161.00 | 805.00 |
| | d | 5 module metal box in recess | 5 | nos | 165.20 | 826.00 |
| XII | | Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (Group B) | | | | |
| | a | 2 module white/ off-white | 5 | nos | 96.6 | 483.00 |
| | b | 3 module white/ off-white | 5 | nos | 109.2 | 546.00 |
| | c | 4 module white/ off-white | 5 | nos | 120.4 | 602.00 |
| | d | 5 module white/ off-white | 5 | nos | 137.20 | 686.00 |
| | e | 6 module white/ off-white | 5 | nos | 165.00 | 825.00 |
| XIII | | Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (Group B) | | | | |
| | a | 6A SP One way Switch with indicator | 10 | nos | 113.40 | 1134.00 |
| | b | 16A SP One way switch with indicator | 10 | nos | 133.00 | 1330.00 |
| | c | 6A Universal Socket | 10 | nos | 168.00 | 1680.00 |
| | d | 6/16A Universal Socket | 10 | nos | 236.60 | 2366.00 |
| | e | blank plates 1M | 10 | nos | 25.20 | 252.00 |
| | f | blank plates 2M | 10 | nos | 40.60 | 406.00 |
| | g | blank plates 4M | 10 | nos | 33.60 | 336.00 |
| XIV | | EARTHING | | | | |
| | a | Supply and drawing No.10 SWG copper along the wiring and earth lead. | 90 | mts | 62 | 5580.00 |

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| | Supply of superior quality copper b earth socket for No 10SWG copper conductor including crimping | 8 | nos | 19 | 152.00 |
| | TOTAL | | | | 450000.00 |
| (Rupees Four Lakh Fifty thousand only) | | | | | |