

**BOQ FOR ELECTRICAL WORK FOR SIDBI, JAIPUR.**

**PART - II**

| No.      | Particular  | Qty   | Units | Rates<br>Rs. | Rate in words<br>Rs. | Amount<br>Rs. |
|----------|---|-------|-------|--------------|----------------------|---------------|
| <b>1</b> | <b>ELECTRICAL WIRING</b>  |       |       |              |                      |               |
|          | Providing & fixing POINT WIRING for Ceiling and wall lights. The item includes Circuit wiring from DB to the switch board with 2x2.5 Sq. MM PVC insulated copper conductor with 2.5 sq. MM PVC insulated copper conductor for earthing in appropriate size of Low Smoke Zero Halogen (LSZH), Oxygen index as per ASTM D-2863 (29%), Minimum Temperature as per ASTM D-2863 (250 Deg.C), Max HCL Emission As per IEC-754-1 (20% by weight), Max Smoke Density as per ASTM D-2843 (60%), Flammability as per IEC-332-1, IEC-332-3 CAT. A-B-C., IEEE-383, SS-424-1475 Class F3, IS:10810-Part 53,61,63 flexible copper as per BS:5308-1-2, IEC-189, is:1554-1:88, VDE-0185, IEC-60227 conductor wire, laid in PVC conduits ISI mark, point wiring to be laid with 2x1.5 Sq. MM PVC insulated copper conductor with all necessary accessories, such as saddles etc. on surface or embedded in wall, chasing the walls and making the surface neat afterwards The item includes switch 6 AMP SIEMENS / MK / Moduler system as per IS:3854-1997, IS:1293-1988, IEC-60884-1(Socket with Safety Shutter) with (Double module) all base plates & cover plates, M.S. box of same make etc.3-plate |       |       |              |                      |               |
| a        | Providing and fixing point wiring with same specifications as MAIN point wiring above but one point to be controlled by one switch.(3 x 1.5 sq.mm wire)   | 75.00 | Nos.  |              |                      |               |
| b        | Providing and fixing point wiring with same specifications as MAIN point wiring above but two point to be controlled by one switch.( 3 x 1.5 sq.mm wire)  | 40.00 | Nos.  |              |                      |               |
| c        | Providing and fixing point wiring with same specification as above but for Wall FAN points with ONE 5pin 6 AMP socket at location of fan is to be provided.   | 32.00 | Nos.  |              |                      |               |
| d        | Providing and fixing point wiring with same specification as above but for Ceiling FAN points & Electronic Regulator with 1.5 sq.mm wire.   | 4.00  | Nos.  |              |                      |               |
| e        | Providing & fixing wiring for glow Sign Board with same specifications as main point wiring above with 2x2.5 Sq.mm copper conductor wire with 2.5 sq.mm copper conductor for Earthing in appropriate size MS conduits.  | 1.00  | Nos   |              |                      |               |

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|------------|--|------------|--------------|--------------|----------------------|---------------|
| f          | Providing & fixing wiring for 16 Amp Power points with same specifications as above but with 2x4.0 Sq.MM copper conductor wire, and 2.5 sq.mm for Earth, Including 6 pin (6/16 Amps) Socket and 16 Amp Switch. One Point per circuit.                          | 20.00      | Nos          |              |                      |               |
| g          | Providing & laying 6 Amp light plug point. With 2x2.5 Sq.MM PVC covered copper conductor with 1x 1.5 Sq. MM PVC covered copper conductor for Earthing. The item Includes 1 NO 5 pin 6 AMP socket and 1 no 6AMP switch (double module) etc. complete.           | 20.00      | Nos          |              |                      |               |
| h          | 6 Amps Plug Points with same specs as above but at switchboard   | 15.00      | Nos          |              |                      |               |
| l          | Providing & laying A.C. point. with 3x6.0 Sq.MM insulated copper conductor wire & 4 Sq.mm copper conductor wire for earthing in M.S. Conduits as per standard manufacturer's enclosure comprising of 20 Amp Industrial Type two pin socket with scrapping eart | 7.00       | Nos          |              |                      |               |
| j          | Providing an fixing Computer points with 2x2.5 Sq.MM copper conductor wire & 1x2.5 sq. mm. copper conductor wire for earthing including 3 Nos 5pin 6 Amp sockets, 1 Nos 16 amp switch, complete with all necessary accessories.                                | 46.00      | Nos          |              |                      |               |
| k          | Providing and fixing point wiring with same specifications as MAIN point wiring above but one point to be controlled by Two Way switch (1.5 sq.mm wire)  | 2.00       | Nos.         |              |                      |               |
| l          | Providing and fixing BELL POINTS on wall / partition with 2x1.0 Sq.MM copper conductor with call bell switch (Push Type) including ANCHOR call bell TRESSA Multi Tune Bell complete.   | 7.00       | Nos          |              |                      |               |
| m          | Providing and laying telephone wiring with 4 pair telephone cable in 3/4" PVC conduit including all necessary accessories with telephone sockets RJ- 11, boxes base plates etc. complete.  | 45.00      | Nos.         |              |                      |               |
| <b>2</b>   | <b>MAINS PANEL</b>   | 1.00       | Nos.         |              |                      |               |

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|------------|--|------------|--------------|--------------|----------------------|---------------|
|            | <p>SITC of 2.0 mm thick rust inhibited, sheet steel enclosed, cubicle compartmentised, dust &amp; vermin proof with rubber gaskets, hinged &amp; lockable doors &amp; powder coated main panel of ABB /C&amp;S / L&amp;T etc, with incomer / outgoing compatibility for following swithgears as mentioned</p> <p><b>INCOMMING-</b> 1 Nos -250 Amp TPN MCCB 45 KA BC, 300A TPN Copper Bus bar, 4 strips properly insulated, (Hot Shrunked with colour coding)</p> <p>Supplying, Fixing, Testing and commissioning 250 Amps 4 pole ON LOAD Change over switch (MCB type) including all necessary connections and to be fixed in main panel.</p> <p><b>OUTGOING:</b> 10 Nos 100 AMPS TPN MCCB ; and 3 nos. 63A TPN MCB, 2 nos 63 a TPN MCB as spare.</p> <p>The item includes all indicator lamps LEDs for three phases, toggle switch, Voltmeter (0-500V) with selector switch, Am-meter (0-250Amp) with selector switch connectors, etc. complete.</p> <p><b>NOTE ALL SWITCH GEAR APPROVED MAKE, THE PANEL TO BE FURNISHED WITH CPRI APPROVED CERTIFICATE. Panel design to be approved before installation.</b></p> |            |              |              |                      |               |
|            | <p><b>APFC PANEL</b></p> <p><b>Incoming:-</b> 1no. 250A TP MCCB, 3nos. Phase indicating lights, Power sensing CT(esvee make) one no. , one no. APFC relay(neptune/ Bch)</p> <p><b>Out going:-</b> 8nos. 6/32 A TP MCB for protection for each bank, 8 no. contactors (C&amp;S/LS), 8nos. Selector Switch(one for each bank(esvee), 50 kvar. Capacitors(epcos) wiring and inerconnections(lot), Hardware(lot), Bus bar (aluminum) (lot), Suitable size and design powder coated encloser.</p> <p><b>NOTE:- Only CPRI Approved APFC panel to be installed, design to be approved before execution.</b></p>   | 1.00       | nos          |              |                      |               |
| <b>3</b>   | <b>DISTRIBUTION BOARDS</b>   |            |              |              |                      |               |
|            | <b>All MCB to be "C" series</b>  |            |              |              |                      |               |
| a          | <p>SITC of 4 way VTPN double door DB for LIGHT/ POWER (Flush mounting type) internally wired, neutral and earth busbar, mounted on wall by cutting and repaing wall afterwards, with 160 Amps TPN MCCB controlling 4 Nos. 63A TPN MCBs. Complete.</p>  | 2.00       | Nos.         |              |                      |               |

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|-----------------|---|------------|--------------|--------------|----------------------|---------------|
| b               | SITC of 4way TPN DD DB, with incomer 63A TPN MCB, Controlling, 9/12 nos. 6/32 A SPMCBs  | 6.00       | nos          |              |                      |               |
| c               | Do--- as above but for UPS/ AC DB, with 63A TPN MCB as l/c and controllin 9 nos. 16/32 A sp MCBs in 8 way SPN DD DB.  | 3.00       | Nos.         |              |                      |               |
| <b>4 CABLES</b> |   |            |              |              |                      |               |
| a               | Providing and placing in position, testing and connecting 1100 V grade XLPE insulated PVC sheathed armoured Alluminium cable 3.5x120 Sq.Mm conforming to IS 7098 with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/ floorpass through class B GI pipe. (for Branch)            | 50.00      | Mtr          |              |                      |               |
| b               | Providing and placing in position, testing and connecting 1100 V grade XLPE insulated PVC sheathed armoured Alluminium cable 3.5x50 Sq.Mm conforming to IS 7098 with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/ floorpass through class B GI pipe. (for SAARC/ RCPC office) | 50.00      | Mtr          |              |                      |               |
| b               | Providing and laying 4x 25 Sq.MM Copper Conductor in 2 mm PVC conduit including 2.5 sq.mm copper conductor for earth from Mains Panel to Various DBs. Including all necessary terminals etc. complete.  | 80.00      | Mtr          |              |                      |               |
| c               | Providing & fixing 4x16 sq. mm.Coper Conductor in 2 mm thick PVC conduit for UPS supply and A.C. D.B. including 4 Sq. mm Copper conductor for earthing From panel to UPS & A.C D.B.including all accessories such as Saddles etc. complete.   | 80.00      | Mtr          |              |                      |               |
| d               | Providing & fixing 4x10 sq. mm.Coper Conductor in 2 mm thick PVC conduit for UPS supply and A.C. D.B. including 4 Sq. mm Copper conductor for earthing From panel to UPS & A.C D.B.including all accessories such as Saddles etc. complete.   | 150        | Mtr          |              |                      |               |
| d               | Providing and fixing 2x 6 Sq mm.Copper conductor for UPS supply From UPS. To UPS DBs The item includes all necessary accessories such as Saddles cable glands etc. complete.  | 50         | Mtr          |              |                      |               |

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|------------|--|------------|--------------|--------------|----------------------|---------------|
| <b>5</b>   | <b>Cable Terminations</b>  |            |              |              |                      |               |
|            | Supplying, connecting the end terminations with copper cable lugs, Single Compression Brass Cable Glands, Tapping, Crimping etc. complete.   |            |              |              |                      |               |
| a          | 3.5 core 120 Sqmm All Ar.  | 2          | set          |              |                      |               |
| b          | 3.5 core 50 Sqmm All Ar.   | 2          | set          |              |                      |               |
| c          | 4x25 Sq.MM Cu Conductor  | 4          | set          |              |                      |               |
| d          | 4x16 Sq.MM Cu Conductor  | 4          | set          |              |                      |               |
| e          | 4x6 Sq.MM Cu Conductor   | 4          | set          |              |                      |               |
| f          | 4x10 Sq.mm Cu Conductor  | 2          | set          |              |                      |               |
| g          | 2x6 Sq.mm Cu Conductor   | 4          | set          |              |                      |               |
| <b>6</b>   | <b>EARTHING</b>  |            |              |              |                      |               |
|            | Providing, fising, testing and connecting Earthing Pit as per following details.   |            |              |              |                      |               |
| a          | Earth pit with 600x600x3mm copper plate 16 feet deep filled with filling compound,RoHS with copper strip 25x3mm in GI pipe 1.5" dia with holes and funnel for watering, connected with copper bolts to the plate. The item includes making brick masonry chamb | 1.00       | Nos          |              |                      |               |
| b          | Providing and fixing copper strip 25x3mm from earth pit to the mains panel & to the UPS DB. The strip to have PVC SLEAVE for insulation in appropriate size Clas B GI pipe being underground from PIT to Premises & once inside premies strip to be without GI | 0.00       | Mtr          |              |                      |               |
| c          | Providing and fixing Pipe Earthing (IS 3043 Code) 15'-0" deep with 1.5" GI pipe With perforations filled with alternate layers of Charcoal and salt. The item includes Funnel on top in brick masonry chamber with CI cover for watering purpose complete.     | 1.00       | Nos          |              |                      |               |
| d          | Providing and fixing Copper Earth Wire 8 guage in GI conduit in Floor / wallsFrom pipe earthing to Mains Panel Complete.   | 70.00      | Mtr          |              |                      |               |

**TOTAL ELECTRICAL WIRING ETC. WORK**

**7 ELECTRICAL FIXTURES**

**Item includes Providing, assembling, fixing, testing & commissioning Following Fixtures including all accessories & extension chords as maybe necessary complete. All CFL / Flurescent fixtures (except down lighters) to be hung from the RCC ceiling.**

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|---------------------------------------|--|------------|--------------|--------------|----------------------|---------------|
| a                                     | Providing and Fixing Recessed mounted direct indirect high performance decorative luminaire of Philips / Wipro with Paralite P5 lovers 2 x 36 W CFL., WCP 17236 including lamps, of WIPRO, or equivalent approved Model in Philips/ Bajaj / Havells. | 51.00      | Nos          |              |                      |               |
| b                                     | p/F T5 fixture of wipro/ philips make, 4' long .   | 10.00      | Nos          |              |                      |               |
| c                                     | Providing and Fixing recess mounted high performance decorative luminaire of Philips / Wipro 1 x 18 W, CFL including lamp.   | 139.00     | Nos          |              |                      |               |
| d                                     | Providing and Fixing wall fans. 400mm sweep HAVELLS swift LX OR CROMPTON make of equivalent price.   | 32.00      | Nos          |              |                      |               |
| e                                     | P/f led rope lighting (wipro / philips or equivalent) including fitting/ choke etc. and all accessories etc. complete.   | 30.00      | rmt          |              |                      |               |
| e                                     | providing and fixing of existing exhaust fans, as available on site, after repairs etc. complete.  | 6          | Nos          |              |                      |               |
| <b>8 MUSIC SYSTEM</b>                 |  |            |              |              |                      |               |
| a                                     | Supply & Drawing of Speaker Line with 14/.0076 twin flat speaker cable in PVC conduit  | 50         | Mtr          |              |                      |               |
| b                                     | Supply & Fixing 6" dia 6 watt round flush mounted Philips make speaker in false ceiling with connection (Ahuja/ philips)   | 8          | Nos          |              |                      |               |
| <b>TOTAL ELECTRICAL fixtures etc.</b> |  |            |              | <hr/> <hr/>  |                      |               |

**B Data cabling**

|    |  |    |       |  |  |  |
|----|--|----|-------|--|--|--|
| 1  | Supply ,installation ,testing ,commitioning of of cat 6 cable of D - link make including conduiting etc. complete with termination on both side of each circuit. | 46 | point |  |  |  |
| 2  | Supply ,installation ,testing ,commitioning of information outlet(dual outlet) and face pack and gang box of D – link make suitable for cat 6 cable.             | 46 | Each  |  |  |  |
| 3a | Supply ,installation ,testing ,commitioning of mounting cord 1 meter, Cat 6 of D link make ( Company Made )  | 46 | Each  |  |  |  |
| b  | Supply ,installation ,testing ,commitioning of mounting cord 2 meter, Cat 6 of D link make ( Company Made )  | 46 | Each  |  |  |  |

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|------------|--|------------|--------------|--------------|----------------------|---------------|
| 4          | reinstallation of 24 port Jack panel D Link make suitable for Cat 6 cable  | Each       | 1            |              |                      |               |
| 5          | reinstallation of 24 port Switch 10/100/1000 Mbps ( Auto detecting ) D Link make suitable for Cat 6 cable ( Non Programmable ) | Each       | 1            |              |                      |               |
| 6          | re installation 9 U Data Rack with accessories, glass door etc. complete.  | Each       | 1            |              |                      |               |

**TOTAL DATA CABLING**

GRAND TOTAL ELECTRICAL WORKS AND FIXTURES AND DATA CABLING

**LIST OF APPROVED MAKES**

ITEM

MAKE

**ELECTRICAL WORKS**

(Any from the followings)

|    |                                       |   |
|----|---------------------------------------|---|
| 1  | M.S. / PVC conduits and accessories   | BEC / STEEL CRAFT/ AKG/ SETIA             |
| 2  | PVC INSULATED FRLS COPPER WIRES       | NATIONAL/ FINOLEX / SKYSTONE / HAVELLS    |
| 3  | TELEPHONE WIRES                       | NATIONAL/ FINOLEX / SKYSTONE / HAVELLS    |
| 4  | PVC SHEETHED ARMoured ALUMINIUM CABLE |   |
| 5  | SWITCHES / SOCKETS ETC.               | ABB / ANCHOR (VIOLA)                      |
| 6  | MCCB, MCB, ELCB, DB                   | ABB/ LEGRAND/ C&S ( ALL DBS- DOUBLE DOOR  |
| 7  | SWITCH FUSE UNITS/ CHANGEOVER         | L&T / ABB                                 |
| 8  | CALL BELL                             | ANCHOR / MAX                              |
| 9  | JOINTING KITS / CONNECTORS            | SCREWLESS WAGO & CONTROLS (I) LTD.        |
| 10 | METAL CLAD PLUG / SOCKETS             | MDS/ L&T / SEIMENS                        |
| 11 | METERING EQUIPMENT                    | RISHAB / AUTOMATIC ELECTRIC               |
| 12 | ASS / VSS                             | KAYCEE / L&T                              |
| 13 | CABLE GLANDS                          | M/S SEIMENS TYPE BRASS COMPRESSION GLANDS |
| 14 | LUGS                                  | DWELLS CRIMPING TYPE                      |
| 15 | LUMINAIRES & FIXTURES                 | PHILIPS                                   |
| 16 | FANS                                  | CROMPTON / USHA/ BAJAJ                    |
| 17 | EPABX                                 | MATRIX / BPL / TATA                       |
| 18 | MONITOR, CAMERA                       | THE ACE & EQUIVALENT                      |

Note:- All other materials required for the work shall be complying with IS specifications and subject to approval from Architect / Employer.