

Premises & Estate Section, Karnal Circle Office, Karnal

**BOQ FOR ELECTRICAL WORKS AT: MAHENDRAGARH BRANCH AT CANARA BANK**

| S. NO. | DESCRIPTION OF ITEM   | QTY  | UOM      | RATE (Rs.)<br>(Excl. GST) | AMOUNT (Rs.)<br>(Excl. GST) |
|--------|---|------|----------|---------------------------|-----------------------------|
| 1      | SITC of 3 Nos. 100 Amp. Kit-kat Fuse unit along with 100 Amp. neutral link on wooden board of size 2'0" X 2'0" complete with connections complete in all respect to the satisfaction of Bank.   | 1.00 | Set      |                           |                             |
| 2      | <p><b>ELECTRICAL PANEL</b></p> <p>Design, manufacture, providing, storing &amp; installing in position, effecting proper connection, testing and commissioning of panel made of 16 SWG, CRCA sheet steel. It shall be dust and vermin proof. It shall have compartmentalized construction with bus bar chambers, cable alley, cable glands plate etc. as required, duly painted from inside as well outside. It shall have the following:</p> <p><b>MAIN PANEL:</b></p> <p>1 No.100 Amp. TPN, MCCB (25 KA breaking capacity),<br/>Bus bars 100 Amp., 3 phase, 4 strips, 415 volts, 50 Hz. copper busbars with colour coded PVC heat shrinkable sleeves. <b>There should be 2 sets of BUS BAR in such a way that AC load should not be connected to GENERATOR power.</b></p> <p>100 Amp. Changeover Switch<br/>Instruments: Digital Multi function Meter of standard make for displaying Input Voltage, Ampere, Power factor, KWH used with CTs.</p> | 1.00 | No.      |                           |                             |
|        | <p><b>OUTGOING:</b></p> <p>5 Nos. 40 Amp. TP MCB (For LDB, PDB, Branch UPS, Inverter and Spare Feeder) from Generator Powered Bus.<br/>2 Nos. 63 Amp. TP, MCB (For AC DB and Spare Feeders) from Non-Generator Powered Bus.<br/>6-32 AMP DP MCB. 3 Nos (for Glow Sign board, Strong Room, and spare feeder) from Generator Powered Bus.<br/>The design of panel should be got approved by the Architect before manufacturing. Also, the provision for 1/2 spare outgoing should be considered for future expansion. The job shall be completed to the satisfaction of the Bank.</p>   |      | Internal |                           |                             |
| 3      | <b>UPS I/P, O/P AND DISTRIBUTION &amp; INVERTER INPUT &amp; DISTRIBUTION</b>  |      |          |                           |                             |
| a.     | SITC of 32/40 Amp. TP MCB in Double Door enclosure complete (Branch and Inverter Incomers) complete in all respects as required.  | 2.00 | Nos.     |                           |                             |
| b.     | SITC of 20/32 AMP Modular plug & socket along with MCB & plug top complete as per requirement and satisfaction of Bank. (2 for Branch's UPS Input, 2 for Branch's UPS Output)   | 4.00 | Nos.     |                           |                             |
| c.     | SITC of 12 WAY SPN Double Door DB complete with 1 No. 40 AMP DP MCB as incomer and 10 NOS. 6-10 AMP SPMCB as outgoing <b>for Branch UPS power distribution to Computer points on Staff Counters/ Tables.</b>  | 1.00 | No.      |                           |                             |

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| d.       | SITC of 8 WAY SPN Double Door DB complete with 1 No. 32 AMP DP MCB as incomer and 6 NOS. 6-10 AMP SPMCB as outgoing <b>for UPS power distribution points for ESSENTIAL LOADS like CCTV System, Fire &amp; Burglar Alarm Systems, Networking Rack, ATM and select Light points powered by UPS.</b>  | 1.00  | No.  |                           |                             |
| e.       | SITC of 40/63 Amp. Rotary Phase selector switch complete with RYB indication in enclosure for Branch's UPS input power network and Inverter. Complete in all respect as required.  | 2.00  | No   |                           |                             |
| <b>5</b> | <b>RAW POWER &amp; FAN, LIGHTING DB &amp; AC DISTRIBUTION BOARD</b>  |       |      |                           |                             |
| a.       | SITC of 4 WAY HTPN DB IP43, IK 09, complete with 1 No. 40 AMP TP MCB as incomer and 12 NOS. 6-32 AMP. SPMCB for out going as PDB & AC DB complete in all respect as required.  | 1.00  | Nos. |                           |                             |
| b.       | SITC of 4 WAY HTPN DB IP43, IK 09, complete with 1 No. 63 AMP TP MCB as incomer and 12 NOS. 6-32 AMP. SPMCB for out going as PDB & AC DB complete in all respect as required.  | 2.00  | Nos. |                           |                             |
| <b>6</b> | <b>CABLES</b>  |       |      |                           |                             |
|          | <b>All cables/ wires shall be routed through PVC conduits/ bends/ elbows etc., as required, of appropriate dia. The conduits shall be clamped firmly to the walls/ columns/ pillars etc. with clips/ clamps and fasteners rigidly even if above false ceiling.</b>   |       |      |                           |                             |
|          | <b>Complete job shall include cutting chiseling in walls, floor and making good of all chases/ cuts etc. with combination of cement-mortar, including painting with type and shade of existing wall. The work shall be completed to the satisfaction of Bank.<br/>NO CABLE/ WIRE/ CONDUIT SHALL BE VISIBLE IN THE BRANCH HALL/ CUSTOMER LOBBY/ STAFF WORKING AREA.</b> |       |      |                           |                             |
| a.       | SITC of 3.5 Core 50.0 Sq.mm Aluminium conductor Armoured Cable for service line connection up to Kit kat fuse unit complete in all respect as required.  | 20.00 | Mtr. |                           |                             |
| b.       | SITC of 4 core 6.0 Sq.mm Copper conductor Unarmoured Cable from main Panel to<br>(a) LDB<br>(b) PDB<br>(c) Branch UPS input power supply.<br>Note: In case inverter is present at the branch, the wiring from LDB should be with 2 X 6.0 +1 X 2.5 Sq.mm wiring mentioned below and not with 4 core 6.0 Sq.mm Cable   | 45.00 | Mtr. |                           |                             |
| c.       | SITC of 2 runs of 6.0 Sq.mm and 1 no. of 2.5 Sq.mm FRLS PVC Insulated Multistrand Copper conductor wire from selector switch to UPS to UPS Distribution boards   | 20.00 | Mtr. |                           |                             |

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| d.        | SITC of 4 core 10.0 Sq.mm Copper conductor Unarmoured Cable from main Panel/ Non Generator power Bus to<br>(a) AC DB<br>(b) Inverter  | 35.00 | Mtr. |                           |                             |
| e.        | SITC of Sub main Wiring for Strong room and Glow Sign Board with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper conductor FR pvc/ xlpe insulated Wire in required dia pvc conduit complete in all respects as required.   | 40.00 | Mtr. |                           |                             |
| f.        | SITC of 2 runs of 10.0 Sq.mm and 1 no. of 2.5 Sq.mm FRLS PVC Insulated Multistrand Copper conductor wire from selector switch to inverter.  | 5.00  | Mtr. |                           |                             |
| <b>7</b>  | <b>AC (Split and Cassette ) POINT</b>   |       |      |                           |                             |
| a.        | SITC of AC Point Wiring with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & Modular plug & Socket with 10/16 Amp. SPMCB complete in all respect as required by the Bank (for 1.0/ 1.5 Tr Hi-Wall Split ACs)  | 3.00  | Nos. |                           |                             |
| b.        | SITC of AC Point Wiring with 2 No. 6.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & Modular plug & Socket with 20 Amp. SPMCB complete in all respect as required by the Bank (for 2.0 Tr Hi-Wall Split / Cassette ACs)   | 4.00  | Nos. |                           |                             |
| <b>8</b>  | <b>EARTHING</b>   |       |      |                           |                             |
| a.        | Preparation and commissioning of earth pits with PIP technology GEL type 50 mm dia 3000 mm long earth electrod. (One Dedicated Earthing for ATM UPS, Branch UPS and main panel)   | 2.00  | Nos. |                           |                             |
| b.        | SITC of Earthing conductor from earth terminal to load point with 6.0 sq mm multstrand copper conductor FR pvc/ XLPE insulated cable in required dia pvc conduit complete in all respect as required.   | 35.00 | Mtr. |                           |                             |
| <b>9</b>  | <b>UPS POINT</b>  | 14.00 | Nos. |                           |                             |
|           | Supply & Installation of point wiring for UPS or stabilized power plug points on workstations/ table for computers using 3 X 1.5 Sq.mm copper conductor multi starnd FR PVC sheathed flexible wire including PVC conduite laid floor raceways/conduit and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 1 No. Phase Indication light, 1 No. 16 A Switch, 3 Nos 6A, 5/6 pin sockets & wired together forming one point. The earth wire of green color only. |       |      |                           |                             |
| <b>10</b> | <b>RAW POWER POINT</b>  |       |      |                           |                             |

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| a.        | Supply & Installation of point wiring for Raw power plug points on workstations/ table for computers using 3 X 4 Sq.mm copper conductor PVC sheathed flexible wire including PVC conduite raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 1 nos of 16A, 6 pin sockets & 1 No. 16 A Switch wired together forming one point. The earth wire of green color only. | 9.00  | Nos. |                           |                             |
| b.        | Supply & Installation of point wiring for Raw power plug points on workstations/ table for computers using 3 X 2.5 Sq.mm copper conductor PVC sheathed flexible wire including PVC conduite raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting 1 Nos. 6A socket with switch, wired together forming one point. The earth wire of green color only.                    | 12.00 | Nos. |                           |                             |
| <b>11</b> | <b>LIGHT/FAN POINT</b>  |       |      |                           |                             |
|           | Supply & Installation of concealed point wiring using 600 v grade 1.5 Sq.mm copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling including 2 Nos. 2.5 Sq.mm circuit wires from the relevant DB and also including 2.5 Sq.mm green color copper earth wire and switch plate, switches, etc. as approved by the Bank's Engineer/ Architect.                  |       |      |                           |                             |
| a.        | Primary light points including the cost of 6A modular switch  | 18.00 | Nos. |                           |                             |
| b.        | Secondary light points looped from the above point  | 35.00 | Nos. |                           |                             |
| c.        | Wall Fan Point along with 6 AMP switch  | 9.00  | Nos. |                           |                             |
| d.        | Exhaust Fan Point along with 6 AMP switch   | 4.00  | Nos. |                           |                             |
| e.        | Call Bell Point   | 1.00  | Nos. |                           |                             |
| <b>12</b> | <b>DATA CABLING &amp; POINT</b>   |       |      |                           |                             |
|           | Supplying and laying of D-Link make CAT-6 (UTP) cable through trenches / conduits.  |       |      |                           |                             |
| a.        | Supplying and laying D-link make CAT-6 Cable in P.V.C. Conduit Complete with CAT-6 information outlet with plate & surface Box at individual Tables   | 10.00 | Nos. |                           |                             |
| b.        | Supplying and fixing of 1 mtr long crimped patch cord   | 10.00 | Nos. |                           |                             |
| c.        | Supplying and fixing of 2 mtr long crimped patch cord   | 8.00  | Nos. |                           |                             |
| d.        | Supplying and fixing of 9 U Rack complete with exhaust fan, lockable front glass door, cable managers, electrical socket board etc.   | 1.00  | Nos. |                           |                             |
| e.        | Supplying and fixing of 24 port jack panel  | 1.00  | Nos. |                           |                             |
| <b>13</b> | <b>VOICE NETWORKING</b>   |       |      |                           |                             |

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| a.        | Supply and fixing of 2 nos. 10 pair telephone MDF consisting of tag blocks, disconnecter type, complete with powder coated metal enclose, krone tag block mounting arrangement telephone distribution chart and locking arrangement [for P&T/ EPABX]  | 1.00  | Job   |                           |                             |
| b.        | Supplying and laying telephone cables 0.5 mm dia 2 pair electrolytic tinned copper conductors PVC insulated and twisted pair with rip cord, including PVC conduits/Raceways and RJ11 telephone socket outlet. The rate shall include termination at both ends on tag blocks.  |       |       |                           |                             |
| (i)       | 2 Nos. RJ11 Telephone socket with plate and box   | 9.00  | No.   |                           |                             |
| <b>14</b> | <b>FIXTURES</b>   |       |       |                           |                             |
| a.        | Supply and Installation of 36 W 2' X 2' Square LED light fitting of approved make   | 17.00 | Nos.  |                           |                             |
| b.        | SITC of Tube Light - Patti Type (1 tube light to be provided for the under surface of the customer top of cash cabin)   | 12.00 | Nos.  |                           |                             |
| c.        | SITC of Down Lighter 18 W LED of approved make)   | 22.00 | Nos.  |                           |                             |
| d.        | SITC of LED Strip Light 15 W per 5 M with driver  | 2.00  | Nos.  |                           |                             |
| e.        | SITC of 400 mm <b>Metal Body</b> Wall Mounted Fan (Crompton make)   | 9.00  | Nos.  |                           |                             |
| f.        | SITC of Exhaust Fan (9") (Crompton make) Metal Body   | 3.00  | Nos.  |                           |                             |
| g.        | SITC of Call Bell.  | 1.00  | No.   |                           |                             |
| h.        | Angle holder complete in all respect with 18 W CFL lamp (for Toilet)  | 2.00  | Nos.  |                           |                             |
|           | BRANCH POWER INDICATOR LAMPS—for the three Circuits (Red, Blue & Yellow colour) for showing the power ON/off position for three circuits (i) Branch light (ii) AC/ Raw Power (iii) UPS output supply  |       |       |                           |                             |
| (a)       | Supply installation Testing & commissioning of surface type Metal box made of sheet steel/ PVC and thickness not less than 2mm and structural steel/ PVC having light section completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint with front mounted pilot lamps for main supply, light DB, UPS DB & AC/Power DB. | 1.00  | Each  |                           |                             |
| (b)       | Supply Installation Testing and commissioning of 2x1.5sqmm 1100 V grade PVC insulated multi Stand FRLS copper conductor cable conforming IS694 through 25mm dia PVC conduit on wall with saddle, interconnection, painting, making good to all damages etc. as required to be complete in all respect wherever required.  | 50.00 | Mtrs. |                           |                             |
|           | <b>TOTAL (Rs.)</b>  |       |       |                           |                             |