### ELECTRICAL BOQ OF SBI NBCC BRANCH NDMB

<table>
<thead>
<tr>
<th>S.No.</th>
<th>DESCRIPTION OF WORKS</th>
<th>UNIT</th>
<th>QTY</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SUB HEAD-I ELECTRICAL AND LV SYSTEM</strong></td>
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<tr>
<td>1</td>
<td>Wiring for light point/ fan point/ wall fan point/ exhaust fan/ light sockets etc. with 1.5 sq.mm. PVC insulated 1100 V Grade copper conductor (FRLS) wires &amp; 1.5 sq.mm. copper earth wire in concealed/ surface using 16 SWG MS conduits, accessories such as bends, tees, saddles, draw boxes, mounting boxes, inner plates, cover plates, ceiling rose etc (wherever required) and chromium plates brass screws/ rowel plug etc. The circuit wiring starting from DB to point control box/ switch box using 2 X 2.5 sq.mm PVC insulated 1100 V grade multi- stranded copper conductor wire &amp; 2.5 sq.mm. PVC insulated earth wire (color code to be used). (Flexible conduit/ elbow not allowed). The conduit to be laid in ceiling with proper clamps/ wall/ floor and filling the chase with cement mortar and finishing the same in original form/ wooden partition/ above false ceiling with proper (Wherever required as per standard specifications).</td>
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<tr>
<td>i)</td>
<td>Each circuit shall have independent earth wire.</td>
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<td></td>
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<tr>
<td>ii)</td>
<td>Each point shall be earthed.</td>
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<td></td>
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<tr>
<td>iii)</td>
<td>Circuit wiring is to be included in point wiring rates.</td>
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<td></td>
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</tr>
<tr>
<td>i</td>
<td>One light points controlled by one 6 amp. Modular switch.</td>
<td>Nos.</td>
<td>35.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii</td>
<td>Two light points controlled by one 6 amp. Modular switch.</td>
<td>Nos.</td>
<td>50.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii</td>
<td>Three light points controlled by one 6 amp. Modular switch.</td>
<td>Nos.</td>
<td>40.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv</td>
<td>Four light points controlled by one 6 amp. Modular switch Using for cove light.</td>
<td>Nos.</td>
<td>30.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>v</td>
<td>One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell</td>
<td>Nos.</td>
<td>10.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>vi</td>
<td>Supply, Testing &amp; Commissioning of Flush mount 360 degree ceiling mount sensor that combiner PIR, IR and Lux level control. The Sensor can also be placed in an automatic“Daylight Harvesting” mode for energys savings.</td>
<td>Nos.</td>
<td>20.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Description</td>
<td>Quantity</td>
<td></td>
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<td>-----</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>vii</td>
<td>One wall fan/ ceiling/ exhaust fan point with 6 amp 3-pin socket controlled by one 6 amp. Modular switch. The switch should be at switchboard level.</td>
<td>16.00</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>vii</td>
<td>One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc.</td>
<td>10.00</td>
<td></td>
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</tr>
<tr>
<td>a</td>
<td>Dependent</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>viii</td>
<td>Same as serial no 1 but using 2<em>2.5 + 1</em>2.5 Sqmm Copper Conductor FRLS wires from DB to first 6A, 5 Pin modular socket controlled by one 6A switch and looped to the nearest second point with same 2<em>2.5 + 1</em>2.5 Sqmm copper conductor wires FRLS insulated 1100V grade (max 5 points per circuit).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Primary Point</td>
<td>6.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>Secondary Point looped</td>
<td>10.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ix</td>
<td>Same as serial no 1 but using 2<em>2.5 + 1</em>2.5 Sqmm Copper Conductor FRLS wires from DB to first 6A, 5 Pin modular socket controlled by one 6A switch and looped to the nearest second point with same 2<em>2.5 + 1</em>2.5 Sqmm copper conductor wires FRLS insulated 1100V grade with laying on existing raceways (max 5 points per circuit).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Primary Point</td>
<td>40.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>Secondary Point looped</td>
<td>115.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>POWER POINTS</strong></td>
<td></td>
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<tr>
<td>a</td>
<td>Same as serial no.1, but wiring for 16 Amp, 6-pin sockets by using 2<em>4 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1</em> 4.0 sq.mm earth wire from D.B. to first point 1st socket and 1st to 2nd, socket with 2<em>2.5 sq.mm. and 1</em>2.5 earth wire including providing and fixing of 16 Amp, 6 –pin socket with 16 Amp. Switch. (Modular type switch/ socket/ plate etc. complete assembly) max 2 points per circuit.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>Primary Point</td>
<td>10.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b)</td>
<td>Secondary Point</td>
<td>15.00</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### 3(b)
Same as serial no.1, but wiring for A/C socket by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V grade copper conductor wire of weather proof type AC box with socket complete in all respects controlled by 32 A MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit as per manufacturer specification.

### 3(c)
Same as serial no.1, but wiring for A/C socket by using 4*6 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*6.0 sq.mm. PVC insulated 1100 V grade copper conductor wire of weather proof type 4 way SPN DB complete in all respects controlled by with 40 Amp (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit.

### 4 COMPUTER POINTS
a) Wiring with 2x2.5 sq.mm. + 1x2.5 sq.mm. PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit / Existing Raceways from UPS DB to computer point. Each point to have 3 nos. 6 amps. 5 pin modular type sockets, one 6 amps modular switch with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. The switch should be fixed above the top of counter with indicator and sockets under the counter.

b) Same as above but looped from the above 1st point to 2nd point and 2nd point to 3rd point.

<table>
<thead>
<tr>
<th>Primary Points</th>
<th>Nos.</th>
<th>70.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Points</td>
<td>Nos.</td>
<td>120.00</td>
</tr>
</tbody>
</table>

1) Telecommunication System

1.1 Wiring for VOICE from Jack Panel in data rack to computer workstation with Cat-6 voice cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in PVC conduits throughout the length, from the I/O hub to the
### 1.2
Supplying, laying, effecting terminations, testing and commissioning of 0.51 mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing & fixing conduit pipe or cable tray as required from building tag block to the floor as required.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Supplying &amp; fixing 100 pair krone tag block with enclosure.</td>
<td>Nos. 2.00</td>
</tr>
<tr>
<td>b) P/L 100 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone.</td>
<td>Mtrs. 150.00</td>
</tr>
</tbody>
</table>

### 2 COMPUTER NETWORKING

#### 2.1
Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6 computer cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes supply and laying of CAT-6 cable in PVC conduits throughout the length, from the I/O hub to the point.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2* Supplying and fixing 16 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock &amp; key).</td>
<td>Nos. 2.00</td>
</tr>
<tr>
<td>2.3 Supplying and fixing 27 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock &amp; key).</td>
<td>Nos. R/0</td>
</tr>
<tr>
<td>2.4 Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock &amp; key).</td>
<td>Nos. 2.00</td>
</tr>
<tr>
<td>2.5 Supply, Installation, Testing &amp; Commissioning of 24 port Jack Panel.</td>
<td>Nos. 17.00</td>
</tr>
<tr>
<td>2.6 Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)</td>
<td>Nos. 190.00</td>
</tr>
<tr>
<td>2.7 Supplying and fixing Patch Cord-1 Meter-</td>
<td>Nos. 190.00</td>
</tr>
<tr>
<td>3.0 Supply and fixing of 1.6 mm thick G.I. Box along with RG 6 T.V Co axial socket with Cover Plate.</td>
<td>Nos. 14.00</td>
</tr>
<tr>
<td>4.0 Supply, drawing, connecting, testing and commissioning of T.V Coaxial cable RG 6 in existing conduit.</td>
<td>RM 300.00</td>
</tr>
</tbody>
</table>

### C. CABLES, MAINS & SUBMAINS
1. Supplying all materials and laying/pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>i</td>
<td>2 X 10 sq.mm. + 1 X 6 sq.mm.</td>
<td>RM 40.00</td>
</tr>
<tr>
<td>ii</td>
<td>1 X 10 sq mm Cu wire for earthing.</td>
<td>RM 350.00</td>
</tr>
<tr>
<td>iii</td>
<td>2 X 6 sq.mm. + 1 X 6 sq.mm.</td>
<td>RM 60.00</td>
</tr>
<tr>
<td>iv</td>
<td>4 X 6 sq.mm. + 2 X 6 sq.mm.</td>
<td>RM 60.00</td>
</tr>
<tr>
<td>v</td>
<td>4 X 10 sq.mm. + 2 X 6 sq.mm.</td>
<td>RM 20.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>vi</td>
<td>Supplying, laying, testing &amp; commissioning of 4 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Light DB &amp; UPS).</td>
<td>RM 160.00</td>
</tr>
<tr>
<td>vii</td>
<td>Supplying, laying, testing &amp; commissioning of 4 C X 25 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Power DB).</td>
<td>RM 150.00</td>
</tr>
<tr>
<td>viii</td>
<td>Supplying, laying, testing &amp; commissioning of 4 C X 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (UPS DB)</td>
<td>RM 140.00</td>
</tr>
<tr>
<td>ix</td>
<td>Supplying, laying, testing &amp; commissioning of 4 C x 70 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (SUB MDB Mains)</td>
<td>RM 140.00</td>
</tr>
</tbody>
</table>
Supplying, laying, testing & commissioning of 4 C x 150 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Mains).

### 2 Cable Tray and Raceways

Supplying and fixing of following size of Perforated pre painted ms Cable Trays with perforation not more than 17.5% in convenient section, joined with connector, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. Rates shall be included tee, band reducers etc

<table>
<thead>
<tr>
<th>Size</th>
<th>Rate (RM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150x150 x50 2mm thick Cable tray (For Submain Incoming)</td>
<td>125</td>
</tr>
<tr>
<td>200x200 x50 2mm thick Cable tray (For Submain Incoming)</td>
<td>70</td>
</tr>
</tbody>
</table>

### 3 Fabricating

Fabricating supplying to site of installation, in floor including chase cutting of floor, leveling, refilling and making good the same 1.6 mm thick G.I raceways of height 40 mm and 2.0 mm thick openable cover, totally enclosed, The two lengths of channels with junction box and floor box shall be nut bolted together to make it dust and water proof. complete with all fixing accessories as required.

<table>
<thead>
<tr>
<th>Size</th>
<th>Rate (RM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 mm (wide) x 40 mm (height)</td>
<td>30</td>
</tr>
<tr>
<td>250 mm (wide) x 40 mm (height)</td>
<td>60</td>
</tr>
<tr>
<td>200 mm (wide) x 40 mm (height)</td>
<td>70</td>
</tr>
<tr>
<td>150 mm (wide) x 40 mm (height)</td>
<td>110</td>
</tr>
<tr>
<td>100 mm (wide) x 40 mm (height)</td>
<td>160</td>
</tr>
</tbody>
</table>

### D. DISTRIBUTION BOARD
Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel steel, 1.6mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper busbars, earthbar, common neutral link, din bar for mounting of MCB’s detachable gland / knock out plate & with built in loose wire boxl, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/neutral link and ready for installation of following ways as required.

Use 'B' curve MCB’s for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc. & 'D' curve for UPS DB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B,C & D. Contractor to select the MCB's accordingly as per the nature of the circuit/ load.

Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall be of 125 A.

UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link.

All internal inter connecting wiring with in the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating.

Inside each DB, a DB chart is to be fixed.

<table>
<thead>
<tr>
<th>a</th>
<th>8-way TPN DB</th>
<th>No.</th>
<th>2.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Incomer:</strong></td>
<td>1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Outgoing:</strong></td>
<td>18 Nos.6/10 Amp (10 KA) SP MCB</td>
<td></td>
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<tr>
<td>d</td>
<td>6-way TPN DB</td>
<td>No.</td>
<td>2.00</td>
</tr>
<tr>
<td><strong>Incomer:</strong></td>
<td>1 No. 63 Amp TPN (10 KA) MCB with with 40 A DP RCCB (100 MA) each phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Outgoing:</strong></td>
<td>12 Nos.10/16/20/32 Amp (10 KA) SP MCB</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
<td>Details</td>
</tr>
<tr>
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<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>8-way TPN DB (Power DB)</td>
<td>No. 3.00</td>
<td>Incomer: 1 No. 63 Amp TPN (10 KA) MCB with with 40 A DP RCCB (100 MA) each phase</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Outgoing: 18 Nos.10/16/20/32 Amp (10 KA) SP MCB</td>
</tr>
<tr>
<td>d</td>
<td>12-way TPN DB (Power DB)</td>
<td>No. 2.00</td>
<td>Incomer: 1 No. 63 Amp TPN (10 KA) MCB with with 40 A DP RCCB (100 MA) each phase</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Outgoing: 30 Nos.10/16/20/32 Amp (10 KA) SP MCB</td>
</tr>
<tr>
<td>d</td>
<td>10-way TPN DB</td>
<td>No. 2.00</td>
<td>Incomer: 1 No. 63 Amp TPN (10 KA) MCB with with 40 A DP RCCB (100 MA) each phase</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Outgoing: 24 Nos.10/16/20/32 Amp (10 KA) SP MCB</td>
</tr>
<tr>
<td>f</td>
<td>16-way SPN DB</td>
<td>No. 2.00</td>
<td>Incomer: 1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Outgoing: 12 Nos.6/10/16/25Amp (10 KA) SP MCB</td>
</tr>
<tr>
<td>g</td>
<td>12-way SPN DB (LPDB)</td>
<td>No. 2.00</td>
<td>Incomer: 1 No. 25 Amp DP (10 KA) MCB with 25 A DP RCCB (100 MA)</td>
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<td></td>
<td></td>
<td></td>
<td>Outgoing: 8 Nos.6/10/16/25Amp (10 KA) SP MCB</td>
</tr>
<tr>
<td>E</td>
<td>(LIGHT FITTINGS &amp; ACCESSORIES)</td>
<td></td>
<td>Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED Light Fixtures should be covered with minimum 3 Years onsite replacement warranty).</td>
</tr>
</tbody>
</table>
|   | Supply, fixing, testing & commissioning of LED fixture  
<p>|   | Input: AC180-240V; Constant Current Driver, POWER (WATTAGE)-40W, m; Color temp.(CCT): 6000 Kelvin, High Brightness SMD LED, Luminous flux:3500lm, Ceiling mounted/hanging installation, CRI-70-85, PFC : &gt;0.9, Optical level diffusion plate and guide plate, well distributed light rays and High Efficiency. Corrosion resistant, Oxidation resistant.LED should be LM80 tested &amp; report to be produced for better reliability of LEDs make As specified in tender document or approved by SBIIMS/Architect. |
| a | For grid ceiling LM29-451-XXX-57-XX Recessed LED HPF &gt; 0.9 Fixture with wide input voltage range LED high efficiency driver with non dimmable ballast .make As specified in tender document or approved by SBIIMS/Architect . |
|   | Nos. 65.00 |
| b | LM43-121-120Y57CTW Recessed LED HPF &gt; 0.9 Fixture with wide input voltage range LED high efficiency driver with non dimmable ballast .make As specified in tender document or approved by SBIIMS/Architect . |
|   | Nos. 5.00 |
| c | LM43-121-120Y57CTW suspended LED HPF &gt; 0.9 Fixture with wide input voltage range LED high efficiency driver with non dimmable ballast .make As specified in tender document or approved by SBIIMS/Architect . |
|   | Nos. 5.00 |
| d | LM43-321-XXX-57-WC suspended LED HPF &gt; 0.9 Fixture with wide input voltage range LED high efficiency driver with non dimmable ballast .make As specified in tender document or approved by SBIIMS/Architect . |
|   | Nos. 15.00 |
| 3 | FULL GLOW SP 780 P/X LED26S-5700 PSU W5L113 OD WH/PLHMO1256 o slim Smart Panel or equipment of make As specified in tender document or approved by SBIIMS/Architect. |
|   | Nos. 20.00 |</p>
<table>
<thead>
<tr>
<th></th>
<th>Specifications - Recessed Mount Downlight</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Supply of LED Downlights 15 W system Wattage having powder coated aluminium housing for LEDs and Opal diffuser for soft glare fre light. High power LED with chip efficacy &gt; 100 lm/W &amp; CCT of 6000 Deg Kelvin should be used. LEDs should mounted on MCPCB for better heat dissipation. The driver should be constant current with Surge Protection of 2 KV. LED should be LM80 tested &amp; report to be produced for better relability of LEDs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RESSES DOWN LED LIGHT FIXTURE. 15Watt non dimmable ballast make As specified in tender document or approved by SBIIMS/Architect.</td>
<td>Nos.</td>
<td>150.00</td>
</tr>
<tr>
<td>3</td>
<td>RESSES 300x300 square LED LIGHT FIXTURE. 12Watt non dimmable ballast</td>
<td>Nos.</td>
<td>20.00</td>
</tr>
<tr>
<td>4</td>
<td>LED Strip for cove lighting 15 W per 5 M with driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by SBIIMS/Architect.</td>
<td>Nos.</td>
<td>30.00</td>
</tr>
<tr>
<td>5</td>
<td>12Watt LED Spot Light .make As specified in tender document or approved by SBIIMS/Architect.</td>
<td>Nos.</td>
<td>30.00</td>
</tr>
<tr>
<td>6</td>
<td>Surface LED Light 14 Watt above Mirror .make As specified in tender document or approved by SBIIMS/Architect.</td>
<td>Nos.</td>
<td>15.00</td>
</tr>
<tr>
<td>7</td>
<td>Linear pendent light 9Watt above table .make As specified in tender document or approved by SBIIMS/Architect.</td>
<td>Nos.</td>
<td>35.00</td>
</tr>
<tr>
<td>8</td>
<td>Pendent light.make As specified in tender</td>
<td>Nos.</td>
<td>10.00</td>
</tr>
<tr>
<td></td>
<td>Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by SBIIMS/Architect. (Metal Body Only)</td>
<td>Nos.</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>Supply &amp; fixing of 230 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBIIMS/Architect.</td>
<td>Nos.</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**F. EARTHING SYSTEM**
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copper-bonded rod of 10 feet length, 23 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).</td>
<td>Nos</td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).</td>
<td>Nos</td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i</td>
<td>25 mm x 3 mm copper strip with proper clamps</td>
<td>RM</td>
<td>50.00</td>
<td></td>
</tr>
<tr>
<td>ii</td>
<td>25 mm x 5 mm GI strip</td>
<td>RM</td>
<td>110.00</td>
<td></td>
</tr>
<tr>
<td>iii</td>
<td>Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/recess cable as required.</td>
<td>RM</td>
<td>350.00</td>
<td></td>
</tr>
</tbody>
</table>

**G. MAIN PANEL AND METER BOARD**
Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM "[" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-wire 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2mm thick CRCA MS sheets with hinged, gasketted (Metal based neoprene) locable doors having structural reinforcement including 3mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size with 2 nos earth terminals, 2 nos 230V AC operated 250mm X 250mm size axial fans for exhaust of heat with On-Off toggle switches including 2 coated primer and 2 power coated paint finish of approved shade over metal surface cleaned and treated with seven tank process complete with interconnections etc as per specifications as required.main panel board of approved make (KRYPTON POWER CONTROLS/NEPTUNE/TRICOLITE/AMPTECH Or should be CPRI Approved, Type of Approval as instructed by the SBIIMS/Architect)as per the

<table>
<thead>
<tr>
<th>All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be with heat shrinkable sleeves SMC/ DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be suitable arrangement shall be made for termination of multiple incoming cables. All kA values indicated shall be Ics breaking capacity. GA drawings shall be got approved by SBI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabrication, supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. panel made out of 2 mm thick CRCA sheet including connection, inter-connection along with 4 strip aluminium busbar as per CPWD specifications,(Part IV-Sub-station) etc. as required. (Meter Board )</td>
</tr>
<tr>
<td>Incoming :- 1 No. 400 Amps,TPN MCCB (25 KA) with extendable rotary handle each thermal over current, instantaneous, Short circuit release, Earth fault. Set 1.00</td>
</tr>
<tr>
<td>b. Floor panel shall consists of : -</td>
</tr>
</tbody>
</table>
## INCOMER

1 no. 400 Amp 4P ATS switch, with 1 No. 400 Amps, TPN MCCB (36 KA) with extendible rotary handle each thermal over current, instantaneous, Short circuit release, Earth fault.

## BUSBARS

500 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.

## INDICATING PANEL

Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 500/5A ratio, 15 VA Class-1.0 metering. - 1 sets

Red/Green/Amber ON/ OFF/ TRIP indicating lamps with 2A SP MCB backup protection.

1 set of three phase indicating lamps along with 2A SP MCB backup protection.

Restricted Earth fault relay with 3 Nos. current transformers of 500/5 ratio, 10 VA Class 5P 10 (Numeric Relay not required.)

Undervoltage, Overvoltage & phase reversal relay for persisted voltage of 105-180% & 20-95% of rated voltage (Numeric Relay not required).

## OUTGOINGS:

2 Nos 40 A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For signage & Spare)

4 Nos 63 A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For Power DB, Spare)

3 Nos 40 A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For Light DB & Spare)

2 Nos 125 A 4 Pole MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

2 Nos 63 A 4 Pole MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

4 Nos 100 A 4 Pole MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

The **electrical panel** as described above and specifications complete.

Set 1.00
C. UPS panel shall consists of:

**INCOMER**

1 no. 100Amp TPN MCCB (16 KA) with extendable rotary handle *each thermal over current, instantaneous, Short circuit release, Earth fault.*

**BUSBARS**

125 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.

**INDICATING PANEL**

Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 100/5A ratio, 5 VA Class-1.0 metering. - 1 sets

Red/Green/Amber ON/OFF/TRIP indicating lamps with 2A SP MCB backup protection.

1 set of three phase indicating lamps along with 2A SP MCB backup protection.

Restricted Earth fault relay with 3 Nos. current transformers of 100/5 ratio, 10 VA Class 5P 10 (Numeric Relay not required.)

Undervoltage, Overvoltage & phase reversal relay for persisted voltage of 105-180% & 20-95% of rated voltage (Numeric Relay not required).

**OUTGOINGS:**

3 Nos 63 A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

3 Nos 63 A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

2 Nos 40 A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

1 Nos 40 A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

The UPS panel as described above and specifications complete.

Set 2.00

C. MDB PART PANEL:

**INCOMER**

1 no. 100 Amp TPN MCCB (16 KA) with extendable rotary handle *each thermal over current, instantaneous, Short circuit release, Earth fault.*

**BUSBARS**
150 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.

**INDICATING PANEL**

- Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 100/5A ratio, 5 VA Class-1.0 metering. - 1 sets
- Red/Green/Amber ON/ OFF/ TRIP indicating lamps with 2A SP MCB backup protection.
- 1 set of three phase indicating lamps along with 2A SP MCB backup protection.
- Restricted Earth fault relay with 3 Nos. current transformers of 100/5 ratio, 10 VA Class 5P 10 (Numeric Relay not required.)
- Undervoltage, Overvoltage & phase reversal relay for persisted voltage of 105-180% & 20-95% of rated voltage (Numeric Relay not required).

**OUTGOINGS:-**

- 3 Nos 63 A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.
- 2 Nos 63 A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.
- 2 Nos 40 A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.
- 2 Nos 40 A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.

The **PART PANEL** as described above and specifications complete. Set 2.00

**H. UPS**

Designing, fabrication, supply, installation, testing and commissionings of On line UPS three phase I/P and 3 phase O/P with latest configuration as per SBI approved make.vendor shall be provide with 20 min battery back up

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<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30 KVA</td>
<td>Nos. 2.00</td>
</tr>
<tr>
<td>2</td>
<td>10 KVA</td>
<td>Nos. 2.00</td>
</tr>
</tbody>
</table>

**J. SALVAGE**
**SALVAGE:-** Dismantling and removal of all existing wires, cable, conduits, fans, lights, DB's, Panel etc. including making the area free from all debris and complete site clearance to receive new works all complete as per the instructions of Bank’s Engineer/Architect

<p>| | | |</p>
<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wirings/ DBs etc.</td>
<td>Lot</td>
</tr>
<tr>
<td>2</td>
<td>Electrical Panel</td>
<td>Nos.</td>
</tr>
<tr>
<td>3</td>
<td>Wall Fan</td>
<td>Nos.</td>
</tr>
<tr>
<td>4</td>
<td>Down lighter CFL Fixture</td>
<td>Nos.</td>
</tr>
<tr>
<td>5</td>
<td>2’ X 2’ CFL Fixture</td>
<td>Nos.</td>
</tr>
<tr>
<td>6</td>
<td>Tube ligths CFL type</td>
<td>Nos.</td>
</tr>
</tbody>
</table>

**TOTAL FOR ELECTRICAL WORKS**

Note:- The rates quoted includes all other taxes, duties, loading, unloading, transportation, other expenses etc to site. only GST will be paid extra