

**BOQ FOR ELECTRICAL & ALLIED WORKS FOR STATE BANK OF INDIA AT SHAHGUNJ
BRANCH**

| Sl. No. | Particulars | Quantity | Unit | Rate | Amount |
|---------|---|----------|------|------|--------|
| | <u>POINT WIRING</u> | | | | |
| 1 | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface heavy gauge PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. | | | | |
| | Group C | 235 | Nos | | |
| 2 | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. | | | | |
| | Group C | 65 | Nos | | |
| 3 | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. | 2 | Nos | | |
| 4 | Wiring for wall mount fans with 3 Module Box along with 1 no 6A socket and 1 no 6A Switch including 3 runs of 1.5 sq.mm PVC FR copper conductor including all connections etc as reqd. | 10 | Nos | | |
| | <u>CIRCUIT/UPS/POWER/SUBMAIN WIRING</u> | | | | |
| 5 | Wiring for light/Ups/Raw power Circuit with 2X2.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 1 No. 2.5 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 900 | mtrs | | |
| 6 | Wiring for light/Ups/Raw power Circuit with 4X2.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 2 No. 2.5 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 500 | mtrs | | |

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| 7 | Wiring for light/Ups/Raw power/AC/Submain Circuit with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 1 No. 4 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 400 | mtrs |
| 8 | Wiring for light/Ups/Raw power/AC/Submain Circuit with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 2 Nos. 4 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 300 | mtrs |
| 9 | Wiring for light/Ups/Raw power/AC/Submain Circuit with 2X6 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 1 No. 6 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 300 | mtrs |
| 10 | Wiring for light/Ups/Raw power/AC/Submain Circuit with 4X6 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 2 Nos. 6 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 250 | mtrs |
| 11 | Wiring for light/Ups/Raw power/AC/Submain Circuit with 4X10 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 2 Nos. 6 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 200 | mtrs |
| 12 | Wiring for light/Ups/Raw power/AC/Submain Circuit with 4X16 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 2 Nos. 6 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 100 | mtrs |

MODULAR BOX/PLATE/SWITCH/SOCKET

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| 12 | Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required. | | |
| a | 1 or 2 Module (75mmX75mm) | 98 | Nos |
| b | 3 Module (100mmX75mm) | 42 | Nos |
| c | 4 Module (125mmX75mm) | 20 | Nos |
| d | 6 Module (200mmX75mm) | 32 | Nos |
| e | 8 Module (125mmX125mm) | 8 | Nos |
| f | 12 Module (200mmX150mm) | 6 | Nos |

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| 13 | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. | | |
| a | 5/6 amps switch | 98 | Nos |
| b | 2 way 5/6 amps switch | 4 | Nos |
| c | 15/16 amp switch | 54 | Nos |
| d | 3 pin 5/6 amp socket outlet | 144 | Nos |
| e | 6 pin 6/16 amp socket outlet | 40 | Nos |
| f | Telephone socket outlet | 32 | Nos |
| g | TV antenna socket outlet | 4 | Nos |
| h | Bell push | 1 | Nos |
| 14 | Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required. | 40 | Nos |
| 15 | Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as Required. | 50 | Nos |
| | <u>INSTALLATION OF FIXTURES/FANS</u> | | |
| 16 | Installation, testing and commissioning of pre-wired, LED fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. As required. | 160 | Nos |
| 17 | Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required. | 30 | Nos |
| 18 | Supplying and fixing extra down rod of 10 cm length G.I. Pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored) | 2 | Nos |
| 19 | Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. As required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored) | 2 | Nos |
| 20 | Numbering of ceiling fan/ exhaust fan/ LED fittings as required. | 120 | Nos |
| 21 | Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. | | |
| a | Upto 450 mm sweep | 5 | Nos |
| b | 510 mm sweep | 0 | Nos |
| 22 | Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes. | 5 | Nos |

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| 23 | Supplying and fixing PVC batten/ angle holder including connections etc. as required. | 10 | Nos |
| 24 | Supplying and fixing brass batten/ angle holder including connection etc. as required. | 4 | Nos |
| 25 | Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required. | 1 | Nos |
| <u>MCB/DB</u> | | | |
| 26 | Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. | | |
| a | 100 A,30KA,FPMCCB | 2 | Nos |
| b | 125 A,36KA,FPMCCB | 2 | Nos |
| 27 | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) | | |
| a | 8 way , Double door | 4 | Nos |
| b | 12 way , Double door | 4 | Nos |
| 28 | Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) | | |
| a | 4 way (8 + 12), Double door | 3 | Nos |
| b | 6 way (4 + 18), Double door | 2 | Nos |
| c | 8 way (4 + 24), Double door | 2 | Nos |
| 29 | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) | | |
| a | 4 way (4 + 12), Double door | 2 | Nos |
| b | 8 way (4 + 24), Double door | 2 | Nos |
| 30 | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | |
| a | Single pole | 100 | Nos |
| b | Single pole and neutral | 4 | Nos |

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| c | Double pole | 6 | Nos |
| d | Triple pole | 9 | Nos |
| e | Triple pole and neutral | 5 | Nos |
| 31 | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required. | 30 | Nos |
| 32 | Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required. | 4 | Nos |
| 33 | Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. | 10 | Nos |
| 34 | Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required. | 10 | Nos |
| <u>EARTHING</u> | | | |
| 35 | Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 2 | sets |
| 36 | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 2 | sets |
| 37 | Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required. | 150 | mtrs |
| 38 | Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required. | 30 | mtrs |
| <u>CABLES</u> | | | |
| 39 | Supplying, Laying and fixing of one number Armoured Aluminium/Copper Cable of 1.1 KV grade of following size on wall surface as required. | | |
| a | 3.5x90 sq.mm | 120 | mtrs |
| 40 | Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE Copper conductor cable of 1.1 KV grade as required. | | |
| a | 3.5x90 sq.mm | 4 | sets |

SUPPLYING OF FIXTURES

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| 41 | Supplying of following rated LED Light Fixtures of Cool Light | | |
| a | 34/36 Watts 2x2 Size LED Fixtures | 80 | Nos |
| b | 15 Watts Down light Fixtures | 75 | Nos |
| c | 18 Watt batten type LED Fixtures | 55 | Nos |
| d | 24 Watt Bulk head Fixtures | 2 | Nos |
| 42 | Supplying of Following size Fans | | |
| a | 1200 mm Ceiling Fan | 40 | Nos |
| b | 400 mm Wall mounting fan(Metal Body) | 35 | Nos |
| c | 230 mm Exhaust Fan(Heavy Duty) | 3 | Nos |
| d | 300 mm Exhaust Fan(Heavy Duty) | 2 | Nos |

MISCELLANEOUS

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| 43 | Supply and fixing 50 Pair Krone box along with all necessary accessories etc as reqd. | 1 | Nos |
| 44 | Supplying and fixing of 200 A Onload Changeover switch i/c all necessary connections etc as required. | 1 | Set |
| 45 | Supplying and fixing of 200 A Copper busbar i/c all necessary connections etc as required. | 1 | Set |
| 46 | Supplying and fixing of 40kvar apfc Panel i/c all necessary connections etc as required. | 1 | Set |

47 **ENERGY METER CUBICLE : Fabrication, Supply, Installation, testing & Commissioning of enery Meter cubicle made out of 16 SWG CRCA sheet consisting of the following. (to be fixed outside the building).**

Separate chamber for energy meter (with fixing plate, view glass and holes with rubber gromets), Separate Lockable CT chamber big enough to accommodate 3 nos. CTs comfortably, Chamber for Cutouts & switchgear etc. and consisting of the following.

3 Nos.200A Open Type cutout fuse with bakelite base and with 50A HRC fuses

160A, 16kA (at 415 volts) , 4 Pole MCCB with operating handle - 1No.

25x3 mm Tinned copper earth bench with black sleeve mounted on FRP insulators with SS Nuts & bolts for giving connections.

4 Runs 16 Sq.mm PVC insulated copper wire for giving internal connections between C/O fuses, MCCB, Neutral Link etc with copper Lugs and SS Nuts&Bolts.

Spreader and SS Nuts & Bolts, Rubber gromets for metal crossings of wires, door knobs with lock nuts etc.

Mark ON & OFF direction, MCCB & Cut out fuse ratings, cable size, consumer No., Name of Branch etc.neatly using good quality stickers /Paint.

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| 48 | <p>Complete with all interconnections and powder coated painting. The Panel Board shall be conforming to IS and Electrical Inspectorate / MSEDCL standards.</p> <p>MAINS CHANGE OVER Supply and installation of 200A 4 Pole ON LOAD Change over switch with suitable metallic enclosure with cable entry box and powder coat painted and with 6 nos 2A SP MCB with 6 nos LED indicators for the identification of MSEB / DG Set 'ON' & neat marking thereof. (Separate chamber & door for COS chamber & Indicator + MCB Chamber). Use 1/1.5 Sq.mm rigid single core PVC insulated copper conductor for control wiring. Suitable metal supports shall be incorporated to guide/tie the control wiring and neat dressing thereof. All unused knock out holes/gaps shall be properly sealed.</p> | 1 | Set | |
| 49 | <p>MAIN SWITCH (To be installed at Entrance): Supply and installation of 200A 16 kA 4 Pole MCCB with suitable rotary operating handle and with suitable painted metallic enclosure marked with "Main Switch"</p> | 1 | No. | |
| | | 1 | Set | |
| | | | Total | Rs |