

**BOQ FOR ELECTRICAL & ALLIED WORKS FOR STATE BANK OF INDIA AT SHIVAJI CHOWK
BRANCH JALNA**

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	140	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	40	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.	30	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.	650	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.	300	mtrs		

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.	250	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.	200	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.	220	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.	200	mtrs
<u>MODULAR BOX/PLATE/SWITCH/SOCKET</u>			
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)	128	Nos
b	3 Module (100mmX75mm)	22	Nos
c	4 Module (125mmX75mm)	15	Nos
d	6 Module (200mmX75mm)	20	Nos
e	8 Module (125mmX125mm)	8	Nos
f	12 Module (200mmX150mm)	6	Nos

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	130	Nos
b	2 way 5/6 amps switch	30	Nos
c	15/16 amp switch	32	Nos
d	3 pin 5/6 amp socket outlet	120	Nos
e	6 pin 6/16 amp socket outlet	30	Nos
f	Telephone socket outlet	22	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.	35	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.	90	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.	35	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

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	3	Nos
b	12 way , Double door	3	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	2	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	156	Nos
b	Single pole and neutral	2	Nos

c	Double pole	6	Nos
d	Triple pole	12	Nos
e	Triple pole and neutral	6	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.	16	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.	120	mtrs
38	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	50	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

41	Supplying of following rated LED Light Fixtures of Cool Light		
a	34/36 Watts 2x2 Size LED Fixtures	60	Nos
b	15 Watts Down light Fixtures	80	Nos
c	18 Watt batten type LED Fixtures	60	Nos
d	24 Watt Bulk head Fixtures	2	Nos
42	Supplying of Following size Fans		
a	1200 mm Ceiling Fan	55	Nos
b	400 mm Wall mounting fan(Metal Body)	30	Nos
c	230 mm Exhaust Fan(Heavy Duty)	3	Nos
d	300 mm Exhaust Fan(Heavy Duty)	2	Nos

MISCELLANEOUS

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 80kvar 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.

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