

**TENDER SCHEDULE FOR SBI PUTHIYANGADI MADAYI BRANCH:
ELECTRICAL WORKS**

No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Note: The Vertical Distribution boards and ETPN boards dismantled with incoming and outgoing MCB/MCCBS) shall be reused to maximum possible extent.				
1	<u>MODULAR SOCKETS:</u>				
a	Supply and fixing of 4nos. 5A ,3 pin plug sockets with 1 no 16A switch fixed on a suitable module metal box and white front plate (Modular type) including all interconnections as required UPS power (Indicator Switch shall be fixed above the table with suitable modular front plate/box and sockets shall be fixed below the counters)	10.00	no		
b	Supply and fixing of 2nos. 5A sockets with 1 no 16A switch fixed on a suitable module metal box and white front plate (Modular type) including all interconnections as required Raw power (Switch shall be fixed above the table with suitable modular front plate/box and sockets shall be fixed below the counters)(Raw power - 8 nos, UPS -5 nos)	17.00	no		
c	Supply and fixing of modular RJ11 telephone sockets with suitable mounting box (Modular type) including all interconnections as required (Bm, officers, counter, reception, fo)	9.00	no		

d	Supply and fixing of 3nos. 15A sockets with 1 no 16A switch fixed on a suitable module metal box and white front plate (Modular type) including all interconnections as required UPS power(for the SERVER room)socket for the hub must be fixed as per the location of HUB inside the server room	1.00	no		
e	Supply and fixing of 1nos. 15A socket with 16A switch fixed on a 3 module metal box and white front plate (Modular type) including all interconnections as required	6.00	no		
f	Supply and fixing of 1nos. 15A socket fixed on a 3 module metal box and white front plate (Modular type) including all interconnections as required for safe room, record room, locker room	6.00	no		
g	Providing 2 meter length of flexible 3core 2.5sqmm multi core copper cable one end connected to plug top 15A and the other connected to the SB inside and a suitable hook arrangement as required for hanging the cable	6.00	no		
2	<u>LIGHT & FAN POINT WIRING</u>				
a	Point wiring with 1.5sqmm 650V grade multi stranded PVC insulated copper wire FRLS type in MS/PVC PIPE for lights, fans including supply & fixing of 5 amp modular switch in concealed MS switch box, front plate, 3 plate ceiling rose/Angle holder in suitable block having provision for concealed circuit wiring with 3 Nos (P,N,E) 2.5sqmm. and all interconnections as required.	52	pts		

b	same as the above with two light points controlled by single switch	16.00	pts		
c	Supply and fixing of flush type 6A, 5 pin combined switch socket outlet in the Lighting control switch boards including interconnections complete as required.(dependent)	8.00	nos		
d	supply and fixing of 6A modular socket 3" below the false ceiling and 6A switch in the switchboard as required for wall mounted fans	11.00	nos		
e	Same as item 2a but for call bell points including providing new buzzer for the Branch Manager cabin as required	1.00	nos		
f	Supply and installation of 25 A Modular type 3 pin plug socket with suitable metallic box for air conditioners	7.00	nos		
g	Supply and installation of 25A modular type DP switch (2 module with indicator) with suitable metallic /PVC box for the local control of the air conditioners.	7.00	nos		
3	<u>UPS, RAW POWER & TEL WIRING:</u>				
a	Supply and wiring with 3runs of 2.5 sq.mm 1100 V grade PVC insulated multi strand copper conductor wires FRLS conforming to IS 694 (with latest amendments) in suitable size PVC CONDUIT of 2mm thick concealed in the above ducts in the floor and supply of all fixing materials and accessories, interconnections complete as required	500.00	mtr		

	for the UPS power sockets in the single window counters and officer tables. (UPS ,Raw power points over counter,16A plug points, cash officer, signage boards)				
b	Wiring for the wall mounting fans from the nearest switch board with 1.5sqmm 650V grade multistranded PVC insulated copper wire FRLS in MS/PVC PIPE and all interconnections as required i.	100.00	mtr		
c	Cutting the floor to the required depth 2" and width 6" for burying the conduits for the UPS/raw power socket wiring and plastering the floor surface.	100.00	mtr		
d	Supplying and laying 2 pair telephone wire 0.50Sqmm in Modi make PVC /casing capping / pipe of 20/25 mm dia for the telephone points as per the layout.	200.00	mtr		
e	Supply and laying of 20/25mm ISI marked PVC conduit with one run of 16 SWG GI wire from the location of hub to computer nodes and as may be required for PA systems	100.00	mtr		
f	Chipping the wall for laying the PVC pipes ,re plastering and bringing back it to original finish for concealing the existing vertical drops/switch boards	50.00	mtr		
4	<u>DISTRIBUTION BOARDS</u>				
	Supply and installation of following size MCB distribution boards with following combination of MCBs as required				

a	3 phase 8 way Main VTPN Double door DB Incomer: 63A FP MCCB ,16KA &outgoing : 40A TP MCB- (AC , PDB, spare) 2 nos, 32A TP MCB -2 nos(LDB, spare) for non essential DB	1.00	Nos.		
b	3 phase 4 way ETPN DB Incomer: 32A FP RCCBO +30mA &outgoing :20A/32A SP MCB – 10 nos for LDB power circuits at banking hall	1.00	Nos.		
c	3 phase 4 way ETPN DB Incomer: 40A FP RCCBO +100mA &outgoing :20A/32A SP MCB – 10 nos for PDB , AC DB power circuits at banking hall	2.00	Nos.		
d	3 phase 4 way Main VTPN Double door DB Incomer: 100A FP MCCB ,16KA &outgoing : 20A SP MCB- 3 nos(Board light,Atm ac-1,spares -1),63A TP MCB- 2 nos, 63A SP MCB -2 nos(Ups-2 nos),40A SP MCB -1 no for ATM UPS for Main DB	1.00	Nos.		
e	2 + 12 way MCB Double door DB for UPS sockets Incomer : 40A DP MCB &Outgoing : 10/6 A SP MCB 10 Nos. for UPS	1.00	Nos.		
f	Supply and fixing of 20A DPMCB on a suitable metal box for power supply to A/C units including all interconnections as required near the proposed AC locations at 4.5 ft from the floor level.(Legrand/Siemens/L&T)(Ac for 1.0 TR AC BM , E-lobby,customer lounge)	3.00	nos		
g	Supply and fixing of 32A DPMCB on a suitable metal box for power supply to A/C units including all interconnections as required near the proposed AC locations at 4.5 ft from the floor level.(Legrand/Siemens/L&T)	4.00	nos		

h	Supply and fixing of 63A DPMCB on a suitable metal box for power supply to UPS input including all interconnections - output.(Legrand/Siemens/L&T)	2.00	nos		
i	Supply and fixing of 63A FP MCCB,25KA on a suitable metal box with suitable termination facility for 4C 25 Sqmm Al Armoured cable for switching off and on the non essential loads after the office hours including all interconnections as required .(Legrand/Siemens/L&T)	1.00	no		
5	<u>SUB-MAIN & AC WIRING</u>				
a	Wiring with 2 runs of 6 Sq.mm 1100V grade PVC insulated Copper conductor multi strand wires FRLS along with one run of 4mm copper earth wire run in suitable size 2 mm thick PVC CONDUIT run concealed on wall/ Ceiling etc as required. (Ups output, 2Tr AC)	200.00	mtr		
b	Wiring with 2 runs of 4Sq.mm 1100V grade PVC insulated Copper conductor multi strand wires FRLS along with one run of 4mm copper earth wire run in suitable size 2 mm thick PVC CONDUIT run concealed on wall/ Ceiling etc as required. (1 Tr split ac,Ups sub Db)	100.00	mtr		
c	Supply, laying and dressing of the following size of 1.1 KV grade PVC insulated armoured cable with aluminium conductor concealed or clamped on wall/ceiling/trench/cable	40.00	mtr		

	tray / clamps if necessary for 4 core 10 Sq.mm AYFY etc as required.(From Non essential DB to LDB,PDB)				
d	Supply, laying and dressing of the following size of 1.1 KV grade PVC insulated armoured cable with aluminium conductor concealed or clamped on wall/ceiling/trench/cable tray / clamps if necessary for 4 core 16 Sq.mm AYFY etc as required. (From NON essential DB to AC DB)	30.00	mtr		
e	Supply, laying and dressing of the following size of 1.1 KV grade PVC insulated armoured cable with aluminium conductor concealed or clamped on wall/ceiling/trench/cable tray / clamps if necessary for 4 core 25 Sq.mm AYFY etc as required. (From VDB to master switch and then to Non Essential DB)	60.00	mtr		
f	Supply, laying and dressing of the following size of 1.1 KV grade PVC insulated armoured cable with aluminium conductor concealed or clamped on wall/ceiling/trench/cable tray / clamps if necessary for 4 core 35 Sq.mm AYFY etc as required. (From meter to COS,COS to VDB,)	70.00	mtr		
g	Supply, laying and dressing 6 x 2.5 sq. mm copper conductor PVC sheathed, 1100 V grade armoured control cable on wall , ceiling, trench etc with necessary clamps, supports including end terminations using proper lugs, for DG set ON/OFF facility (option	65.00	mtr		

h	Termination of the above cables 10 sqmm as required with suitable glands and lugs	2.00	nos		
i	Termination of the above cables 16 sqmm as required with suitable glands and lugs	2.00	no		
J	Termination of the above cables 25 sqmm as required with suitable glands and lugs	4.00	nos		
K	Termination of the above cables 35 sqmm as required with suitable glands and lugs	6.00	nos		
6	<u>FIXTURES/FANS</u>				
a	Supply & installation of Direct/Indirect recess mounted luminaire ,Philips fixture (OR) Equivalent models in other approved makes Catloug - RC 380B LED 31 S - 6500 PSE - WH (including fixing frame if any required)with all inter connections and fixing arrangement as required. For BM-1,CO-1Banking hall - .	13.00	nos		
b	Supply and Installation of 1X15W down lighter fixtures recess mounted type, Philips DN 192 B LED 12(9) s 6500 PSU - WH or equivalent with all interconnections and fixing arrangement as required(BM-1,counter -4,ante room-1)	29.00	nos		
c	Supply and Installation of 4ft LED tube fitting with LED lamp 20W with all interconnections and fixing arrangement as required	16.00	nos		
d	Supply and installation of lamp holder type with 6W LED lamp all interconnections in other approved makes with all inter connections and	7.00	Nos.		

	fixing arrangement as required.(Toilets,cash room,safe room,ladies room)				
e	Supply & installation of new Ceiling fan of CG make 48" with new Anchor faster hooks , bolts and adequate length of fan rods upto 1mtr	5.00	Nos.		
f	Supply and installation of 100w 4/5 step type electronic fan regulator in the modular switch boards as required	5.00	Nos.		
g	Supply and fixing of heavy duty exhaust fan of 12" of Almonard / CG as required(UPS-2)	2.00	Nos.		
h	Supply and fixing of exhaust fan of 12" of Almonard / CG as required(Toilet -2, dinning hall)	3.00	Nos.		
i	Supply & installation of Metal body wall fan with metal blade with all required accessories model Havells V3 wall fan or equivalent	11.00	Nos.		
7	Providing Standard Copper Plate Earth Station with 600 X 600 X 3.15mm thick copper plate including construction of brick pedestal, providing meshed funnel, CI cover completely as per IS 3043-1987 or latest revision including suitable copper strip to be fixed in the DG,UPS neutral for distribution.	2.00	nos		
8	Providing Standard GI pipe Earth Station including construction of brick pedestal, providing meshed funnel, CI cover completely as per IS 3043-1987 or latest revision including suitable copper strip to be fixed in the UPS room for	4.00	nos		

	distribution.(OB betterman-1,DB-1,DG body -2)				
9	Supply, laying and giving termination using bare 10 SWG Cu Wire in 20mm dia rigid pvc conduit for DB earthing from the existing earth pits .	150.00	mtr		
10	Supply, laying and giving termination using bare 4 SWG Cu Wire in 20mm dia rigid pvc conduit for UPS earthing from the new earth pits .	100.00	mtr		
11	Supply, laying and giving termination for 25mmx3mm CU flat earth bench	3.00	nos		
12	Supply and wiring with 1x6 sqmm CU wire through ISI mark PVC conduit from earth bench of UPS to dedicated earth of DG system and also from the surge protection Device to its dedicated earth pit.	70.00	mtr		
13	Supply,Installation and commissioning of 5 nos of ceiling speakers (Ahuja,Philips) with matching transformer and wired with twisted pair cu cables 2Cx1 Sqmm wire through PVC pipe and terminating the connection in BM cabin complete with all accessories as required	1.00	Ls		
14	Supply and Installation of class 1+2 surge protection device of OBO Betterman make V25-B+C/3+NPE with manufacturers own enclosure as per	1.00	no		

	schematic layout between incoming and dedicated earth				
15	Supply and fixing of Legrand/protonics/L&T make timer for controlling the board light circuits and exhaust fan	2.00	nos		
16	Supply and fixing of 10A single pole + 30ma ELCB for earth leakage protection of sign board light circuit	1.00	nos		
17	Expenses for computing the total connected load of the new premises of the branch ,prepare the as fitted electrical layout and submission of work completion certificate to landlord for obtaining the connected load from KSEB by landlord as per the connected load.	1.00	LS		
18	Charges for the preparation of single line diagram of the whole electrical installation using auto cad ,laminating and displaying it in the UPS/Electrical room	1.00	LS		
19	DG START/STOP STATION : Supply and installation of good quality 6A Selector Switch (L&T salzar) with suitable factory built metal box for mounting the switch. For DG Set ON/OFF Control.	1.00	LS		
20	Supply of LT caution boards	3.00	nos		

21	Supply and laying of electrical grade rubber mat at UPS room	35.00	sqft		
22	Supply of Rubber Hand Gloves	1.00	nos		
23	Supply,Installation and commissioning of TV antenna socket(RG-6) modular type factory made MS box with suitable modular plate and base plate including all accessories and interconnections after testing	1.00	no		
24	Supply,laying of Copper Coaxial TV cable through PVC conduit of size 20mm and ISI markwith all accessories	20.00	mtr		
25	Preparation of Physical layout for earth pits and display the same inside the UPS room	1.00	Ls		
26	Supply and installation of 10 Pair Krone connector with all interconnections	1.00	LS		
27	Supply and installation of 3 nos of LED indicators R,Y,B on suitable PVC box with Hylam / PVC cover controlled by 3 nos 6A Modular switches including wiring with 4 runs of 1Sqmm PVC insulated CU wire through 20mm medium guage PVC conduit	1.00	LS		
28	Supply and laying of 10 Pair armoured telephone cable with all accessories	50.00	Mtr		

29	Charges for preparation of necessary drawings for scheme approval, correction of defects as mentioned by Electrical Inspectorate, submission of defect rectification report, arranging for inspection of Electrical Inspectorate officials and getting sanction for energisation of the 40kVA DG set. (all statutory payments towards KSEB/EI which could be receipted for will be paid by the bank)	1.00	LS		
30	Supply and laying of LED strip light with one driver unit per 5 meter (blue color) pasted over the Aluminim C Channel fixed to the counter Crompton/Panasonic/Wipro make	20.00	mtr		
31	Supply,Installation and Commissioning of 100A 4 Pole on load COS in fabricated 1 SWG CECA sheet MS enclosure with indication lamps for DG set and KSEB supply	1.00	no		
32	Estimated value of Electrical works exclusive of GST @18%				
33	GST @18%				
34	Total Value for Electrical works				

Contractor's seal & Signature