

**BILL OF QUANTITIES FOR ELECTRICAL WORKS OF STATE BANK OF INDIA, EMERALD LOUNGE AT MUKERIAN BRANCH**

S. No.	Item	Quantity	Units	Rate	Amount
<b>1</b>	<b>SUB HEAD 1 (COMPUTER POINTS AND DISTRIBUTION)</b>				
1.1	Supply all materials, receiving, storing, handling, fixing and laying 3 x 2.5 sq.mm PVC insulated copper conductor armoured cable and fixing of cable on wall with suitable size of clamps/saddles or laid in floor or recessed wall including cutting of floor/wall for computer points with suitable size GI Box with modular plate and cover in front including providing and fixing 3 no. 5 amp 5 pin modular sockets controlled by 1 no. 15 Amp switch with indicator <b>(to be provided above the table top in partition)</b> connection including all end terminations with suitable size of glands etc. complete as required. <b>(Only two points can be connected in series with single cable ) (Make: Anchor/Crabtree/North West/ REO)</b>	7.00	each		
	<b>2 points for Meeting Room, 2 points per officer Seat, per Counter as per the drawing provided, one for led display</b>				
3	Providing and fixing, testing and commissioning of Heavy Duty modular Power / air-conditioning plug & socket arrangement: 25 amp air-conditioning point modular type socket { <b>to be fixed 1.5 foot below false ceiling</b> } with 25 amp DPMCB C SERIES { <b>to be fixed at Normal Height</b> }.	0.00	each		
	<b>As per the Plan provided by the Architect for Split AC</b>				
4	Supply, installation, testing and commissioning 3 pin metal clad industrial type plug and socket of 30 Amp. Capacity with 25 Amp DP MCB for 2.TR Cassette AC as per plan provided by the Architect : <b>(Make: Havells/HPL/Standard/Legrand/L&amp;T)</b>	1.00	each		
5	<b>Lighting Circuit Wiring and Point Wiring</b>				
5.1	Supply & installation of 2 x 2.5 + 1x1.5E sq.mm FRLS Cu wire multi strand suitable for main circuit to switch boards etc. complete as required . <b>(Make: Havells/ RR Kable / KEI/Finolex).</b>	35.00	mtr		
5.2	Wiring for light point/ ceiling fan point/ exhaust fan point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit ISI Mark, with 6 Amp modular switch, modular plate, suitable GI junction & switch boxes & clip and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. <b>(Wires Make: Havells/ RR Kable / KEI/Finolex) (Switches : Make: Anchor/Crabtree/North-</b>				
a)	Single 6 Amp Fan Switch controlling for wall Fan and other seprate supply Like TV Etc only	6.00	no.		
b)	Single 6 Amp Switch controlling 4 no. LED downlight / 2 no. 2'- 0"x 2'-0" 36 watt light fittings	6.00	no.		
c)	Single 6 Amp Socket controlling by 5 Amp Modular switch in switch boards etc complete as required	4.00	no.		
6	Supply and Installation of Points for Wiring for power plug point <b>(Raw Power Point)</b> 16A with 2 x 2.5 sq.mm + 1 x 1.5sq.mm copper conductors , including the modular switches, sockets and plates Including the cost of 2mm thick PVC conduits. <b>(Switches : Make: Anchor/Crabtree/North-West/ MK) (Wires Make: Havells/ RR Kable / KEI /Finolex) (Two points to be provided per circuit.) ( 2 points per circuit) ( 1 per Seat , 1 in Meeting Room , Lounge &amp; 1 for each for Coffe Mmachine &amp; Water Dispenser )</b>	5.00	each		
7	Supply Installation, Testing & Commissioning of factory fabricated Double Door IP 43 distribution board rust inhibited, powder coated sheet fabricated comprising of incoming & outgoing isolator & MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts Interconnection and grouting bolts etc complete as require as per details below:-				
a)	6 way MCBDB comprising of 1 no. 63 amp DPMCB "C"Series and 4 no. 6/10amp SPMCB's "C" SERIES. <b>(for the UPS points each DB to be connected to 12 UPS points i.e only two points shall be connected with one MCB)</b>	1.00	each		
b)	4 way TPNDDB comprising of 1 no. 100 amp 4 pole isolator and 1 no. 32 amp DPMCB (for Acs) and 10 no 10/25 Amp SPMCB(For other Light, Fan & Power load circuit) <b>(for A.Cs , Lights, Fans &amp; Power Point Circuits). DPMCB must be of C Series.</b>	1.00	each		
	<b>TOTAL SUB-HEAD -1</b>				
	<b>SUB HEAD 2 (PANELS &amp; CABLES)</b>				
1	<b>MAIN PANEL SWITCH:</b> Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, GI earth busbar, busbar chamber ,cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primer and shall also be provided with designation of Incoming and outgoing feeder as details below:				
	<b>OUTGOING</b>				
	1 nos MCCB Breaking Capacity 10 KA 100 Amp 3P with seprate neutral Link, DU Series, L&T make.	1.00	each		

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2	Supply, installation, testing & commissioning of PVC insulated PVC sheathed armored cable of 1100 V (IS-1554 part I) and fixing of cable on wall with suitable size of clamps/ saddles or laid in floor/recess wall including cutting of floor/wall and making good the damages etc. complete as reqd. of following sizes:- (Make: Havells/ RR Kable / KEI/Finolex/Pymen)				
a)	3 x 6 sq.mm copper conductor cable with 1 no. 8SWG G.I. wire (from UPS Room to UPS DB)	30.00	per mtr.		
b)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire (from Essential panel to the 4way TPND B)	40.00	per mtr.		
c)	3 x 2.5 sq.mm. copper conductor (for the Air-conditioning wiring)	15.00	per mtr.		
3	End termination with Brass compression glands including providing lugs/ferruls and making necessary connections etc. complete as reqd. of following sizes:-				
a)	3.5 X 25 sq.mm aluminum conductor	3.00	each		
b)	3 X6 sq. mm Copper conductor	2.00	each		
c)	3 X2.5 sq. mm Copper conductor	2.00	each		
<b>TOTAL SUB -HEAD 2</b>					
<b>SUB HEAD 3 (NETWORKING)</b>					
1	Data Wiring for computer networking starting from mounting rack with UTP CAT-6 cable in 2 mm thick 25mm dia ISI mark PVC conduit with accessories such as bends, junction boxes including providing and fixing I/O plates and SMB complete with all networking accessories etc complete as reqd.(Make: D-Link/MOLEX/AMP/COMMSCOPE).	7.00	no.		
2	Supply, installation, testing and commissioning of 24-port Patch Panel	1.00	no.		
2(a)	Shifting and re-installation, testing and commissioning of existing 24-port Patch Panel to the new place specified by the Bank staff or Architect. The rates includes cables and connectors complete in all respects.	1.00	no.		
3	Supply installation. testing and commissioning of mounted rack 9U height made of powder coated MS sheet.	1.00	no.		
4	Supply, fixing and commissioning of patch cable Cat-6 complete with 2 no. connectors etc. complete as reqd.				
a)	2m long	7.00	no.		
b)	1m long	7.00	no.		
5	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolytic copper conductor in 2 mm thick 25 mm dia ISI marked PVC conduit complete with accessories such as bends, junction boxes etc. with suitable size of G.I. box modular plate and cover in front on surface or in recess including providing and fixing modular type telephone socket outlet and making necessary connections etc. complete as reqd. (Make: Dglink/KEI/Finolex)	4.00	no.		
<b>TOTAL SUB -HEAD 3</b>					
<b>SUB-HEAD 4 (AIR CONDITIONING PIPING WORK )</b>					
1	Supplying & Laying of following COPPER REFRIGERANT PIPING Thickness 22 SWG For Hi-wall Split AC complete with fittings Suction / Discharge line insulated with 12 mm SUPERLON / ARMAFLEX suction line. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement.				
a)	1/4" + 1/2" Refrigerant Copper piping - For Hiwall Split AC's (1.0Tr / 1.5Tr )	0.00	per mtr.		
b)	5/8" + 3/8" Refrigerant Copper piping – For HWS/Cassette AC ( 2.0Tr)	15.00	per mtr.		
2	Supply and laying following dia 3.38mm (confirming to ASTM D1785 standard) in thickness, heavy duty PVC pipe under floor or recessed in walls for AC drains, { To nearest To including bends, Tees etc as required complete in all respect (Make: Diplast/Supreme)	20.00	per mtr.		
3	Cutting of floor/wall for laying of refrigerant/drain pipe including making good the damages etc. Complete as required.	20.00	per mtr.		
4	Electrical flexible cable of 3 x 2.5sq.mm FRLS Cu cable multi strand suitable for 2 Tr Cassette AC / 1.5TR Split AC. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement.(Make: Havells/ RR Kable / KEI/Finolex).	17.00	per mtr.		
<b>Complete AC Indoor and out door location to be finalised by the Branch Manager and Architect only.</b>					
<b>TOTAL SUB -HEAD 4</b>					
<b>SUB HEAD 5 (SUPPLY AND INSTALLATION OF FANS AND FIXTURES)</b>					
1	SITC of 2"x2" Ceiling grid 33-36 watt LED panel fixtures with essential driver in false ceiling including making necessary arrangement for mounting the fixtures and connection with 2 x 1.5 sq.mm insulated copper cable from adjacent point in PVC flexible pipe etc Complete as reqd. Make Philips cat. RC 380 B- LED-30-6500PSE OD WH or equivalent of Wipro / Bajaj.	4.00	no.		
2	SITC of 15 watt LED fixtures /dowlighters with essential driver in false ceiling including making necessary arrangement for mounting the fixtures and connection with 2 x 1.5 sq.mm insulated copper cable from adjacent point in PVC flexible pipe etc complete as reqd. Make Phillips cat no. DN - 192 - 1000 or equivalent of Wipro / Bajaj.	15.00	no.		
3	Supply of 450 mm sweep Metal Body Crompton greaves ( or equivalent) SDX BLCK GOLD / SSTROM 2 wall fan etc. 1325 rpm High Flow Model with 2 Pin Plug complete as required. (M/s equivalent of Bajaj / Havells/Usha )	5.00	no.		

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4	LED Strip / profile light (4.5/5 watt) for cove (M/s Phillips /Wipro / Bajaj ) Complete in all respects with suitable drivers	20.00	per mtr.		
	<b>TOTAL SUB – HEAD 5</b>				
	TOTAL SUB-HEAD-1				
	TOTAL SUB-HEAD-2				
	TOTAL SUB-HEAD-3				
	TOTAL SUB-HEAD-4				
	TOTAL SUB-HEAD-5				
	<b>TOTAL SUB-HEAD- 1-4 (A)</b>				
	<b>TOTAL SUB-HEAD- 5 (B)</b>				
	<b>TOTAL (A+B)</b>				
	<b>GST shall be paid extra as applicable</b>				