

**ESTIMATED COST AND BILL OF QUANTITY FOR ELECTRICAL AND ALLIED WORK OF PROPOSED RENOVATION  
OF BANK OF INDIA, SHIVAJI PARK BRANCH, MUMBAI.**

Sr. No.	Description of Items	Qty	Unit	Rate	Total Amount
<b>A</b>	<b>MAIN L.T. PANEL / DBS</b>				
	Supply & Installation of MAIN L.T. Panel, wall/floor mounted/operated, totally enclosed vermin proof, indoor non-draw out - cubicle type power panel fabricated out of 2 mm thick CRCA sheet having gasketed hinged cover on each cubicle fully powder coated/ enamel painted after seven tank treatment incorporating horizontal and vertical sleeved copper bus bars complete with all internal wiring danger board two earthing lugs, cable chamber etc., as required housing below mentioned switchgears/ meters (GA drawing of the panel to be got approved from the consultant)				
	a) 1 No 125 A TP MCCB, 25 ka incomer				
	b) 63 A TPN MCB 1 Nos				
	c) 40 A TPN MCB 1 Nos				
	d) 63 A DP MCB 2 Nos				
	e) 25 A SP MCB 4 Nos				
	f) 1 set TPN copper Bus bar of 125 A Capacity (4 Pole)				
	g) 1 Set RYB indicating lamp with register and fuses.				
	h) Ammeter with selector switch, 3 Nos of class 1.5, 200/5 A, 10.0 VA CTS				
	i) Voltmeter with selector switch Class I	1	Set		
2	A.C. D.B. Providing and installation of TPN MCB type distribution board (AC) with following accessories. 1. 1 No. 63 Amp. TPN MCCB as Incomer 2. 12 Nos 32/20 A SP MCB Outgoing	1	Set		
3	Lighting D.B. Providing and installation of 4 way TPN MCB DB for lighting purpose A 1 No. 63 A TPN MCB B 12 Nos - 20/25 A SP MCB	1	Set		
4	UPS Panel Providing and installation of MCB type DB similar to aboe bus for UPS distribution a) 1 No. 63 Amp DP MCB with 12 way MCB DB box & 12 Nos. 10 Amp. SP MCB	2	Set		
5	UPS & Raw Power D.B. Providing and installation of 12 way SPN DB for Raw power & UPS a) 1 No. 63 Amp. DP MCB b) 20 A / 15 A SP MCB 10 Nos	1	Set		
	<b>TOTAL COST OF A</b>				

<b>B</b>	<b>MV CABLES</b>				
	Supply and laing of following sizes of PVC sheated PVC insulated Aluminium conductor armoured cable of 1.1 KV grade in trench / duct on surface of wall, in recess on rack, in existing pipe or on clamps, nuts & bolts including supporting clamps and hardware as required				
1	4 Core x 50 sq.mm. (Aluminium)	30	Mtrs		
2	4 Core x 10 sq.mm. (Aluminium)	20	Mtrs		
3	4 Core x 16 sq.mm. (Copper)	20	Mtrs		
	<b>CABLE END TERMINATION</b>				
	Supply and working end terminations with brass compression glands terminal lugs, including crimping and connections for following sizes of PVC sheated and insulated Copper conductor armoured cable of 1.1 KV grade				
4	4 Core x 50 sq.mm.	2	Nos		
5	4 Core x 16 sq.mm.	4	Nos		
6	4 Core x 16 sq.mm. (Copper)	4	Nos		
	<b>TOTAL COST OF B</b>				
<b>C</b>	<b>CIRCUIT &amp; POWER POINT WIRING</b>				
1	Prov. & connecting 2 x 2.5 sq.mm. PVC coated copper conductor with 1 No. 1.5 sq.mm.copper wire (PVC coated in green colour) as earthing laid in PVC pipes and as specified above from Main switch board / DB to various light switch boards complete	300	Mtrs		
2	As specified in item No. C-1 above but PVC wire shall be 4.00 sq.mm.x 2 with 1 No. 2.5 sq.mm. Copper wire green colour or 14 SWG copper wire for earthing laid in PVC pipe as specified from D.B. to power point boards complete.	100	Mtrs		
3	Providing and fixing 5/16 x 4 PVC copper wries in flexible pipes with necessary accessories complete. For interconnection in D.B. etc.	5	Mtrs		
4	As above but 7/18 x 4 with flexible pipes with necessary accessories complete	5	Mtrs		
5	P & F 15 Amp. Switch with socket and indicator for water cooler, with connection complete	2	Nos		
6	S/F 3 Core x 4 sq.mm.	150	Mtrs		
7	P & F 25 Amp. Metal clad Switch & socket with box (For A.C.) Complete	4	Nos		
	<b>TOTAL COST OF C</b>				

<b>D</b>	<b>POINT WIRING</b>				
	P & F 2 X 1.5 SQ.MM. Copper wires PVC insulated laid in required size of PVC conduit (Precision make) with outlet box sockets lock nuts, ceiling rose, holders, earthing etc. from switch board to light, fan, bell, 5 Amp. Light plug, Exhaust fan with switch, plug Roma make				
	on PVC concealed / open board, junction boxes etc. The rate shall include labour and material for chases and refilling/ cement plastering				
	as required complete for the following items. The contractor should use the switches & sockets of Roma for this project.				
1	Light point wiring as per above specification for one/Two/Three light controlled by a switch (5 Amp)	30	Nos		
2	As above but for Ceiling Fan Controlled by a switch	4	Nos		
3	As above but for Exhaust Fan / Wall mounted Fan with 3 pin top socket complete	2	Nos		
4	As above but for call bell with 2 pin socket complete	2	Nos		
5	P & F 3/5 pin 230 V (5 Amp.) with switch socket and plug top on switch board (Half point)	8	Nos		
6	P & F 3/5 pin 230 V (5 Amp.) with switch socket and plug top separate (full point)	10	Nos		
7	P & F point for Audio/ Video token indicator point controlled from Cash Counter, 3 pin 230 V (5 Amp) with switch, socket & plug top complete	1	Nos		
8	Dismantling & removing old wires, fixtures, main switch, sockets, DBs, PVC pipes and removing and storing at sites and taking away as directed by Architect & Consultant	Job			
9	Connection Making arrangement of providing temporary during progress of work from time to time and removing after completion of work as per direction of Architect	Job			
	<b>TOTAL COST OF D</b>				
<b>E</b>	<b>COMPUTER CABLING &amp; WIRING</b>				
1	Pro. & Fixing 3 x 2.5 sq.mm. PVC copper wires in required size of PVC Pipe as specified with necessary fittings from UPS DB to Computer Point complete	450	Mtrs		
2	Prov. & Fixing 5 Amps. Switch & Socket combined a set of 3 plug points for Computer on concealed plate box as specified.	22	Nos		
3	Prov. & Fixing 5/15 Amps. Switch & Socket combined For Direct Supply	22	Nos		
4	Prov. & Fixing Metal junction boxes of size 12" x 12" for termination of cables	8	Nos		
5	Prov. & Fixing Metal junction boxes of size 6" x 6" for termination of cables	4	Nos		
6	Providing 25 mm PVC conduit along with all the accessories	750	Mtrs		
7	Providing 19 mm PVC conduit along with all the accessories	150	Mtrs		
8	Prov. & Fixing charges of trenches underflooring with breaking existing tiles and resurface after laying above conduits with mixture of sand and cement etc.	Job			

	TOTAL COST OF E				
--	-----------------	--	--	--	--

<b>F</b>	<b>P/F ELECTRICAL FITTINGS AND FIXTURES</b>				
1	Prov. & Fixing charges of 2 x 36 Watts Direct Indirect light fixture with 2 Nos. of PLL Tubes (Philips)	20	Nos		
2	Prov. & Fixing charges of 1 x 40 Watts Mirror Optic with 1 Nos of tube (Philips)	3	Nos		
3	Prov. & Fixing charges of 2 x 18 Watts Round down lighter with 1 Nos of PL Lamps (Philips)	20	Nos		
<b>TOTAL COST OF F</b>					
<b>G</b>	<b>WIRING FOR TELEPHONE</b>				
	Supply and installation of multi pair copper PVC insulated and sheathed unarmoured telephone cables with PVC pipe of required size with necessary accessories complete for the following items				
1	Prov. & laying annealed tinned copper wire 2 pairs	800	Mtrs		
2	As above but 10 pairs	35	Mtrs		
3	Tag Blocks for termination (10 Pairs)	2	Nos		
4	Supplying & Fixing Telephone socket with chord out let plate (flush type Roma make with S.M./ PVC Box	20	Nos		
<b>TOTAL COST OF G</b>					
<b>H</b>	<b>EARTHING</b>				
1	Providing & laying of copper amoured cable 2 x 4 sq.mm. From earth pit to L.T Panel & UPS DB	15	Mtrs		
2	Providing & fixing charges of earthing station with GI Earth electrode from earth pit upto power distribution board with earth plate 600 x 600 x 12 mm and charcoal salt etc.	2	Nos		
<b>TOTAL COST OF H</b>					
<b>I</b>	<b><u>LAN WIRING : (Make - D' link/Finolex)</u></b>				
1	Supply & laying of Cat 6 cable with necessary accessories in laid rigid conduit / raceway from the server room till the various computer nodes	1500	Mtrs		
2	Supply & installing of Cat 6 information outlet with plate & surface box.	22	Nos		
3	Supply & installing of Termination of 24 port patch panel with tagging etc. and connection.	1	Nos		
4	Supplying & installing / fixing Termination of 24 port switch with connection.	1	Nos		
5	Supplying & fixing of 1 Mtr. long Patch cord / wire with Data wire	22	Nos		
6	Supplying & fixing of 2 Mtr. long Patch cord / wire with Data wire	22	Nos		
7	Supplying & installing / fixing of Rack 9U Rack panel with proper connection	1	Nos		
8	Ferruling, testing documentation & certificate of data network (Within 24 nodes)	22	Nos		
<b>Total of 9.0</b>					

	<b><u>SUMMARY</u></b>				
<b>A</b>	<b>MAIN L.T. PANEL / DBS</b>				
<b>B</b>	<b>MV CABLES</b>				
<b>C</b>	<b>CIRCUIT &amp; POWER POINT WIRING</b>				
<b>D</b>	<b>POINT WIRING</b>				
<b>E</b>	<b>COMPUTER CABLING &amp; WIRING</b>				
<b>F</b>	<b>P/F ELECTRICAL FITTINGS AND FIXTURES</b>				
<b>G</b>	<b>WIRING FOR TELEPHONE</b>				
<b>H</b>	<b>EARTHING</b>				
<b>I</b>	<b>LAN WIRING</b>				