

Subject	Proposed Interiors for State Bank of India Branch Office at SCO 5&6, Chaura Bazar, Old Ambala Road, Dhakoli, Zirakpur, Distt. Mohali (Pb).						
Electrical Work - BOQ							
ITEM DETAILS				QTY.	UNIT	RATE	AMOUNT
PART- A :							
PART- I : PANELS , KIT KATS & CABLES							
1	Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required.	1.00	job				
2	MAIN PANEL : 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:						
INCOMING							
	1 no MCCB Breaking Capacity 25 KA 160 Amp 4P , L&T make						
	1 no 0 -500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs (3 Nos) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate compartment						
	200 Amps capacity 4 strips Aluminium bus bars.						
OUTGOING							
	1 nos MCCB Breaking Capacity 10 KA 160 Amp 3P and 2 nos MCCB Breaking Capacity 10 KA 100 Amp 3P with seprate neutral Link, L&T make.	1.00	set				
3	EMERGENCY PANEL: 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:						
INCOMING							
	1 no MCCB Breaking Capacity 25 KA 125 Amp 4P , L&T make						

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	1 no 0 -500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs (3 Nos) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate compartment				
	200 Amps capacity 4 strips Aluminium bus bars.				
OUTGOING					
	1 nos MCCB Breaking Capacity 10 KA 100 Amp 3P and 4 nos MCCB Breaking Capacity 10 KA 63 Amp 3P with seprate neutral Link, L&T make.	1	set		
4	Supply, Installation, testing & commissioning of PVC insulated PVC sheathed armoured cable of 1100 V (IS ;1554 Part 1) and fixing of cable on wall with suitable size of clamps /saddles or laid in floor/recess wall including cutting of wall /floor and making good the damages etc complete as required of following sizes (ISI marked). (Make: Havells/ RR Kable / KEI/Finolex) to be laid as per drg.				
a)	3.5X50 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire	30.00	mtr.		
b)	3.5X25 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire	40.00	mtr.		
c)	3X6 sq. mm copper conductors armored cable with one Nos. 8 SWG GI wire (For UPS Supply only)	30.00	mtr.		
d)	3X2.5 sq. mm copper conductors armored cable	20.00	mtr.		
5	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium/Copper conductor cable of 1.1 kV grade as required.				
a)	3.5X50 sq.mm aluminum conductor	4.00	no.		
b)	3.5X 25 sq.mm aluminum conductor	10.00	no.		
c)	3X6 sq. mm Copper cable gland.	6.00	no.		
d)	3X2.5 sq. mm Copper cable gland.	30.00	no.		
6	Supplying & fixing the 1 no.4 pole 200 Amps capacity change over switch and complete connection with Electrical Panels as required. Make: Havells/HPL/Standard/ Legrand/L&T	1.00	no.		
7	UPS DISTRIBUTION BOARD				
	supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited, powder coated sheet fabricated comprising of incoming and outgoing isolator and MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts etc complete as requd. Make: Havells/HPL/Standard/ Legrand/L&T. as per details below :-				
a	4 way DB comprising of 2 no. 63 amp DPMCB (UPS out put).	2.00	each		
b	4 way DB comprising of 1 no. 63 amp DPMCB (UPS input).	1.00	each		

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ITEM DETAILS		QTY.	UNIT	RATE	AMOUNT
8	Supply, installation, testing and commissioning of following capacity 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by under noted capacity: (Make: Havells/HPL/Standard/Legrand/L&T)				
a)	32 Amp with 32 Amp. With DP MCB. (for ups panel)	3.00	no.		
b)	20 Amp with 20 Amp. with DP MCB. (for ups panel)	4.00	no.		
9	Providing and fixing 16 S.W.G. MS sheet adapter box, and also base frame for installation of MCB DBs plug and socket arrangement and to cover cables in system room including painting etc. complete	1.00	sq. mtr.		
10	Providing and laying following sizes of PVC insulated copper conductor cable of 1100 V in flexible/ PVC conduit pipe with accessories such as glands bends etc (as per requirement) including making necessary interconnection etc complete as required.				
a	2 X 6 Sq mm with 1 no suitable insulated 2.5 sq mm multi stranded copper wire in PVC flexible pipe. (Make: Havells/ RR Kable / KEI/Finolex).	20.00	mtr.		
PART-II : COMPUTER POINTS & DISTRIBUTION					
11 / i	UPS POINT - Supply all material, storing, handling, fixing of computer points computer points in suitable size of GI/PVC box including providing 3 nos 5 amps 3 pin modular sockets to be provided under table top and controlled by 1 no 15 A moduler type switch and indicator with moduler cover plate etc complete as required including 3X2.5 sq. mm copper armored cable. Note: Maximum two computer points are to be provided on one circuit. (Switches : Make: Anchor/Crabtree/North-West/MK. (BM, SWO counter, O.T. table - 2 each, N. Rack & LED - 1 each).	20.00	each		
ii	UPS POINT - As per item above but with 2 Nos. 15 A 5 pin socket controlled by 1 no 15 A switch and indicator. (for E - corner - 2Nos, BM - 1Nos. etc.).	3.00	each		
12	Supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited powder coated sheet fabricated comprising of incoming and outgoing isolator & MCBs neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts etc complete as required as per details below. Make: Havells/HPL/Standard/ Legrand/L&T.				

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ITEM DETAILS		QTY.	UNIT	RATE	AMOUNT
a)	8 way SPN MCBDB Double Door comprising of 1 No 63 Amp DP Isolator and 6 No SPMCB 10/16 Amp. (UPS output)	2.00	no.		
b)	6 way SPN MCBDB comprising of 1 No 63 Amp DP Isolator and 4 No SPMCB 10/16 Amp. (UPS output)	1.00	No		
c)	4 Way TP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A FP TPN and 6 Nos.32 A DPMCBS etc complete as required. (for Air conditioning only).	2.00	no.		
d)	4 WayTP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A FP MCB and 12 Nos. 20/25 Amp SPMCBS etc complete as required. (for Raw Power Only)	1.00	no.		
13	RAW POWER: Supply all material, storing, handling, fixing of Raw power points in suitable size of GI/PVC box including providing 1 nos 15 amps 6 pin modular power sockets to be provided controlled by 1 no 15 A moduler type switch and indicator with moduler cover plate etc complete as required including 2X2.5 sq. mm FRLS copper wire + earth wire in dia 2 mm in thickness ISI Mark PVC pipe. Note: One RAW power points are to be provided on one circuit and dirctly to be connected on Power DB. (Switches : Make: Anchor/Crabtree/North-West/MK	10.00	each		
14	Supply, installation, testing and commissioning of following capacity 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by under noted capacity: (Make: Havells/HPL/Standard/Legrand/L&T)				
a)	20 Amp with 20 Amp. C Curve SP MCB. (for 1.0Tr /1.5 Tr High wall split AC's and seprate connection of record room / doc. room /safe room/ lockers room etc.- 4 nos. & Ac - 7Nos as required)	11.00	no.		
15	Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.	1.00	job		

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Electrical Work - BOQ					
ITEM DETAILS					
		QTY.	UNIT	RATE	AMOUNT
16	Basic electrical Wiring of light points, plug points				
	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 6Amp 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. (Wires Make: Havells/ RR Kable / KEI/Finolex) (Switches : Make: Anchor/Crabtree/North-West/MK)				
	(Rate includes 3 x 2.5 sq.mm FRLS copper conductor, single core cable in PVC conduit for circuit/sub main wiring along with earth wire)				
a)	One switch controlled by one socket (independent for wall fan etc.)	15.00	no.		
	Note: Lihgts/fans points to be calculated by numbers of lights and no extra cost shall be paid for dummy switch.)				
17	PART III - EARTHING				
	a)Supply and fix copper plate earth station with 600X600X3mm copper plate including all accessories such as watering pipe and funnel and providing masonry enclosure at top with cover plate i.e excavation of pit, supplying and filling of salt charcoal, refilling of pit etc complete as required as per IS 3043-1987. The voltage between neutral and earth must be below 1 V. The work includes supply, fixing and termination of 5M Length 20X3 mm size copper strip with earth station below ground level etc as required.	1.00	Sets		
	b)Supply and fix GI plate earth station with 600X600X6mm GI plate including all accessories such as watering pipe and funnel and providing masonry enclosure at top with cover plate i.e excavation of pit, supplying and filling of salt charcoal, refilling of pit etc complete as required as per IS 3043-1987. the work includes supply, fixing and termination of 5M Length 20X3 mm size G.I strip with earth station below ground level etc as required.	2.00	Sets		

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	ITEM DETAILS	QTY.	UNIT	RATE	AMOUNT
18	a)Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.	30.00	Meter		
	b)Providing and fixing of 8 SWG GI earth wire in the recess for loop earthing etc. as required.	40.00	Meter		
19	Supply and laying following dia 2 mm in thickness ISI Mark PVC pipe under floor or in recessed walls from earth electrode to UPS room for computer dedicated earthing.				
	25 mm diameter	70.00	Meter		
PART IV - TELEPHONE & DATA CABLE					
20	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolatic 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./PVC 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)	7.00	no.		
21	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make: krone	1.00	no.		
22	Providing , Laying, testing & commisioning of 10 pair telephone cable from outside govt. / bsnl DB to Rack for lease line, ISDN of Make: Delton, finolex, polycab.	25.00	mtr.		
23	Data cabling work for computer networking starting from mounting rack at system room with UTP CAT-6e LAN Data cable in 2mm thick 25 mm dia ISI mark PVC conduit with accessories such as bends, Tees, junction boxes including providing and fixing cat-6 I/O plates and SMB complete with all networking accessories etc complete as reqd. (Make: D-LinK/MOLEX/AMP/COMMSCOPE). Note: Only One Data Points to be provided in One Table/Counter. Extra poitns not to be paid if provided. Maximum 6 no. data cable must be run in one pvc pipe. (Extra Data points not to be provided as per bank's guidlines)	20.00	no.		
24	supply, installation, testing and commissioning of 24-port Patch Panel	1.00	no.		
25	Supply and installation, testing and commissioning of mounted rack 15" hight made of powder coated MS sheet	1.00	no.		
26	supply, installation, testing and commissioning of factory manufactured CAT- 6e patch chord complete with 2 no. connectors etc. complete as reqd.				
a)	1 mtr. long	20.00	no.		
b)	2 mtr. long	10.00	no.		

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PART-V : AIR CONDITIONING REFRIGERATION/DRAIN WORKS					
27	Supplying & Laying of following COPPER REFRIGERANT PIPING Thickness 22 SWG For Air Conditioners units 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. (Make: Total Line/Armcell)				
a)	1/4" + 1/2" Refrigerant Copper piping - For Hiwall Split AC's (1.0Tr / 1.5Tr) to be provided as per drg. (for ATM)	20.00	mtr.		
28	Supplying & laying recessed in wall Rigid ISI Mark PVC drain pipe of size 20mm dia complete with fittings, U traps etc. & as specified to the nearest toilet / drain point under floor or in recessed walls for AC drains including cutting of walls, bends & Tees. making good the damages etc. wherever required. (Make: Diplast/Supreme)	20.00	mtr		
29	Supplying and providing Eletrical flexible FRLS Copper cable of 3 x 2.5sq.mm multi strand suitable for 1.0Tr / 1.5 Tr H.W Split / 2.00 Tr Cassette Multi-runs between Indoor & Outdoor units and between Metal Clads to Out door (for all AC) for electrical supply etc complete as required (Make: Havells/ RR Kable / KEI/Finolex)	100.00	mtr		
PART- B :					
PART-VI : LIGHTS & FANS FIXTURES					
30	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 (roof etc.) in PVC flexible pipe etc Complete as reqd. Cat. No. BZRSQ 43L LED GF of Bajaj or equivalent of Philips / Wipro. 120 Lumens per Watt. Color temperature 6000K.	20.00	no.		
31	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 (roof etc) in PVC flexible pipe etc complete as reqd. Make Phillips cat no. DN - 192 - 1000 or equivalent of Wipro / Crompton / Bajaj.	30.00	no.		
32	SITC of 18 watt of T5 LED fixtures directly on ceiling / wall including making necessary connections with 2x1.5 sq.mm insulated copper cable conductor wire etc. complete as reqd Make; Phillips / Wipro / Bajaj.	15.00	no.		

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	ITEM DETAILS	QTY.	UNIT	RATE	AMOUNT
33	SITC of 400 mm sweep wall fan high flow model of Crompton with 3 pin plug complete as required. (M/s Crompton or equivalent of Khaitan / Bajaj.)	10.00	no.		
34	SITC of 1200 mm CEILING fans complete as reqd. (M/s Crompton High Breeze or equivalent of USHA / Bajaj).	2.00	no.		
35	SITC of 200 mm exhaust fans complete with self opening louvers / shutters including necessary frame etc, complete as reqd. (M/s Crompton High Breeze or equivalent of USHA / Bajaj)	5.00	no.		
36	LED Strip light (4.5/5 watt) of wharm white shade for cove (M/s Phillips /Wipro / Bajaj / Crompton / Havles / Osram Complete in all respects with suitable drivers.	60.00	MTR.		
37	SITC of 30 watt Street light /Flood light for lighting the front side of the branch(M/s Crompton Cat No. LSTS-30-CDL or equivalent of Philips/Wipro .	2	no.		
38	SITC of Automatic Programmable Time Switch 24 Hour for Glow sign board and ATM AC's (Make: L&T or equivelent to Legrand/Havells/Seimens)	2	no.		
	TOTAL OF PART : I +II+III+IV+V (A)				
	TOTAL OF PART : VI (B)				
	TOTAL AMOUNT (A+B)				
	GST extra as per applicable				
	Note: the vendor have to provide LAN diagram after completion of the work along with the bill, without it payment will not be made.				