Subject	Proposed Electrical work for State Bank of India Branch Office - BRANCH AT MINI SECTT. RAJPURA				
	ITEM DETAILS	QTY.	UNIT	RATE	AMOUNT
	PART- A:		<u> </u>		7
	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		
3	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 36 KA 200 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 25 KA 100 Amp 3P and 2 nos MCCB Breaking Capacity 25 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/ Polycab / Finolex)				
a)	4x10 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire	20.00	mtr.		
c)	3.5X50 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire	22.00	mtr.		
d)	3.5X25 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire (panel to ups room)	18.00	mtr.		
e)	3X6 sq. mm copper conductors armored cable with one Nos. 8 SWG GI wire (For UPS DB)	12.00	mtr.		
f)	3X2.5 sq. mm copper conductors armored cable (For AC Supply - AC DB to metal clad box)	10.00	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)	4x10 sq.mm aluminum conductor	4.00	no.		
b)	3.5X50 sq.mm aluminum conductor	4.00	no.		
c)	3.5X 25 sq.mm aluminum conductor	6.00	no.		
d)	3X6 sq. mm Copper cable gland.	4.00	no.		

6 Supplying & fixing the 1 no.4 pole 100 Amps capacity change over switch and complete connection with Electrical Panels as required. Make: Havells/HPL/Standard/ Legrand/L&T (seperte not inbuild in panel)	no.	
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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/Indoasian/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. 100 amp FOUR POLE MCB (UPS input) 2.00	each	
7a Supply, fixing and testing of following 3 pin metal clad industrial type plug &		
socket arrangement with plug top cap & chain controlled by 1 No. MCB		
a) 20/25 amp with 20/25 amp SPMCB { for Branch UPS O/G } 2.00	no.	
b) 32 amp with 32 amp SPMCB { for Branch UPS I/C } 3.00	no.	
8 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.		
2 X 6 Sq mm with 1 no suitable insulated 2.5 sq mm multi stranded copper 20.00	mtr.	
wire in PVC flexible pipe. (Make: Havells/ Polycab/ Finolex)		
9 Cost of maintaning & working 24 X 7 from date of commensment of work to 1.00	Job	
date of completion.		
PART-II : COMPUTER POINTS & DISTRIBUTION		
10a Supply all material, storing, handling, fixing of computer points computer 15.00	each	
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 (to be provided above the table top in		
partition) with moduler cover plate etc. & suitable gland with termination		
complete as required including 3X2.5 sq. mm copper armored cable Note:		
Maximum two computer points are to be provided on one circuit.		
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f)	4 WayTP MCBDB Double Door (8+12module) in recessed wall including cutting of wall and making good the damages comprising with 30mA ELCB and 100amp 4p isolator and 12 Nos. 6/10/16 Amp SPMCBS etc complete as	1.00	no.	
g)	required. (for Light, Fan point and power point only) 4 WayTP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A TPN MCB and 12 Nos. 20/25 Amp SPMCBS etc complete as required. (for Raw Power Only)	1.00	no.	
12a	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: Legrand/Crabtree/North-West/MK	5.00	each	
12b	RAW POWER: Supply all material, storing, handling, fixing of Raw power points in suitable size of GI/PVC box including providing 1 nos 05 amps 06 pin modular power sockets to be provided controlled by 1 no 05 A moduler type switch with moduler cover plate etc complete as required including 2X1.5 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. (to be provide on top of table) (Switches: Make: Legrand/Crabtree/North-West/MK	6.00	each	
13	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/Indoasian/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/safe room/ chest room etc. as required)	3.00	no.	
14	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	
15	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/ Polycab / Finolex) (Switches: Make: Legrand/Crabtree/North-West/MK) (Maximum 06 no. wire in one 2mm thick 25mm pvc pipe)			
	(Rate includes 3 x 2.5 sq.mm FRLS copper conductor, single core cable in			
a)	PVC conduit for circuit/sub main wiring along with earth wire) single 6 Amp Switch controlling 1 light point for required T-5, Cove light, exhaust Fans, Ceiling fan, 2x2 ft LED light and other seprate room supply only.	12.00	no.	
p)	single 6 Amp Switch controlling 2 no. LED downlight	10.00	no.	
c)	single 6 Amp socket controlling by 5 Amp Modular switch in switch boards complete as required.	8.00	no.	
d)	One switch controlled by one socket (independent for wall fan etc.)	5.00	no.	

	Note: Lihgts/fans points to be calculated by numbers of lights and no extra cost shall be paid for dummy switch.)			
16	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 includs 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	
17	a)Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.	40.00	Meter	
	b)Providing and fixing of 8 SWG GI earth wire in the recess for loop earthing etc. as required.	40.00	Meter	
18	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	40.00	Meter	
	PART IV - TELPHONE & 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/Polycab/Finolex)	5.00	no.	
21	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make: krone	1.00	no.	
22	Providing , Laying, testing & commissioning of 20 pair telephone cable from outside govt. / bsnl DB to Rack for lease line, ISDN of Make: Delton, finolex, polycab.	10.00	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 with Ferling need to be done for marking of netwrorking cable at both end of the point i.e. in the rack as well as seat (plastic printed colour numbering tags) complete as reqd. (Make: D-LinK/MOLEX/AMP/COMMSCOPE). Maximum 05 no. data cable must be run in one pvc pipe. (Extra Data points not to be provided as per bank's guidlines)	15.00	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-			
_0	6e patch chord complete with 2 no. connectors etc. complete as reqd.			
a)	1 mtr. long	15.00	no.	
b)	2 mtr. long	10.00	no.	
	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/Armacell)			
a)	1/4" + 1/2" Refrigerant Copper piping - For Hiwall Split AC's (1.0Tr / 1.5Tr)	25.00	mtr.	
28	Supplying & laying recessed in wall Rigid ISI Mark PVC drain pipe of size 25 mm 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 with 4mm insulation. making good the damages etc. wherever required with 4mm insulation. (Make: Diplast/Supreme/Astral)	15.00	mtr	
29a	Supplying and providing Eletrical flexible FRLS Copper cable of 3 x 2.5 sq.mm multi strand suitable for 1.0Tr / 1.5 Tr H.W Split / 2.00 Tr Cassette Multiruns between Indoor & Outdoor units and between Metal Clads to Out door for electrical supply etc complete as required (Make: Havells/ Polycab /Finolex)	35.00	mtr	
	PART- B:			
	PART-VI: LIGHTS & FANS FIXTURES			
30	SITC of 2"x2" Celing 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. Cat. No. BZRSQL 43L LED GF of Bajaj or equivalent of Philips / Wipro. 120 Lumens per Watt. Color temperature 6000K. Make Phillips / Wipro / Crompton.	6.00	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 in PVC flexible pipe etc complete as reqd. Make Phillips / Wipro / Crompton.	16.00	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 / Crompton.	4.00	no.	
33	Supply of 400/450 mm sweep Metal Body and Metal Blades Polar(or equivalent) SDX BLCK GOLD wall fan etc. 1325 rpm High Flow Mode complete as required with rotation feature (M/s equivalent of Havells / Usha Orient / Crompton greaves)	3.00	no.	
35	SITC of 1200 mm 30-36 watt BLDC CEILING fans complete as reqd. with regulator to be provide in the switch board (M/s Crompton High Breeze or equivalent of USHA / Orient).	1.00	no.	
36	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 / Orient)	2.00	no.	

37	LED Strip light (4.5/5 watt) of approved colour & shade - wharm white for cove (M/s Phillips /Wipro / Crompton) Complete in all respects with suitable drivers.	20.00	MTR.					
38	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 .	1	no.					
39	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)	1	no.					
40	Supply, erection, testing and commissioning following <i>Wall Mounted 1.5 ton units</i> with cordless remote complete with all necessary firring duly insulated with 9mm thk. Nitrite rubber pipe insulation with (evaporate coilcopper only_ fan and fan motor, machine control panel improved refringent joints, Air conditioners shall be fitted with hermetically sealed type suction reciprocating or discharge cooled rotary compressor or scroll compressor, compressor unit operating on R22/R410. All complete as per drawing and Instructions of the Engineer incharge/employer (rates are to be inclusive of copper refringent pipe and supply cable with insulation and drain pipe up to 3mtr. length & powder coated MS Stand) Copper only (<i>Make : Hitachi/Daikin/Carrier/Voltas/Blue Star)</i> .		Lumsum					
41	Providing and fixing 4KVA Stablizer (copper winding) input voltage range of 140-280V and output to be 230V Make: Blue Bird/Logic state/ Inline/V-guard	3	no.					
42	Buyback of all old removed electrical related items like switches, boards, wires, cables, racks, copper piping, panels, Dbs etc.	-1	Lumsum					
43	Buyback of old split/window AC/Cassette Acs (quantity may increase or decrease)	-2	no.					
	TOTAL OF PART : I +II+III+IV+V (A)							
	TOTAL OF PART : VI (B)							
	TOTAL AMOUNT (A+B)							
	The UPS points and the networking points are provided two in each seat as	ner discus	sion with t	he Branch o	onsidering their			
	Note: the vendor have to provide LAN diagram, earthing location & route, electrical installation layout with cables, DBs, Panels							
	Triote. the vehicle have to provide Law diagram, earthing location & route, ele	cuicai ilis	tanation lay	out with ta	Dica, DDa, Faileia			