

DETAIL ESTIMATE FOR ELECTRICAL WORKS AT STATE BANK OF INDIA ATM AT TCA LEH					
ITEM DETAILS		QTY.	UNIT	RATE	AMOUNT
PART-I : COMPUTER POINTS & DISTRIBUTION					
1	Supply all material, storing, handling, fixing of computer points computer points in suitable size of GI/PVC box including providing 2 nos 15 amps 5 pin modular sockets to be provided under table top and controlled by 1 no 15 A modular type switch and indicator (to be provided above the table top in partition) with modular 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	4	each		
2	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				
a)	4 way SPN MCBDB comprising of 1 No 32 Amp DP Isolator and 2 No SPMCB 10/16 Amp. (UPS output)	1	No		
b)	4 Way TP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 63 A FP TPN and 3 Nos.32 A DPMCBs, 6 NOS. 6-15 A SPMCB etc complete as required. (for Air conditioning, UPS supply and lighting).	1	no.		
3	Providing and fixing, testing and commissioning of Heavy Duty modular air-conditioning plug & socket arrangement:				
a)	25 amp air-conditioning point modular type socket { to be fixed 1.5 foot below false ceiling } with 25 amp DPMCB C SERIES { to be fixed at Normal Height }.	2	no.		
4	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	job		
5	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)	single 6 Amp Switch controlling 1 light point for T-5, Wall Fans, exhaust Fans , Ceiling fan and other seprate room supply only	4	no.		
b)	single 6 Amp Switch controlling 4 no. downlights / 4 no. LED downlight / 2 no. 2'- 0"x 2'-0" 36 watt light fittings	3	no.		
c)	single 6Amp socket controlling by 5Amp Modular switch in switch boards etc complete as required	2	no.		
	Note: Lihgts/fans points to be calculated by numbers of lights and no extra cost shall be paid for dummy switch.)				

PART-II : PANELS , KIT KATS & CABLES					
6	Providing and fixing of 03 no 100 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required	1	job		
7	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/Pymen)				
a)	3.5X25 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire	40	mtr.		
b)	3X4 sq. mm copper conductors armored cable with one Nos. 8 SWG GI wire	20	mtr.		
c)	3X2.5 sq. mm copper conductors armored cable (Metal Clad or Modular AC points to be provided adjacent to the Acs.	20	mtr.		
8	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)	3.5X 25 sq.mm aluminum conductor	2	no.		

b)	3X4 sq. mm Copper cable gland.	2	no.		
c)	3X2.5 sq. mm Copper cable gland.	4	no.		
9	Making necessary provisions for keeping the branch in working condition by providing or maintaining temporary electrical pnts for the computers/ac's/lighting etc. as per the direction of the Engineer-in-charge including the costs of the material, labour and dismantling.	0	Job		
10	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 :-				
	Providing & fixing 16 S.W.G. M.S. Sheet adapter box, and also base frame for installation of M.C.B. D.B.'s plug &socket arrangement and to cover cables in system room including painting etc. complete	1	sqmt.		
11	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 wire in PVC flexible pipe. (Make: Havells/ RR Kable / KEI/Finolex)	15	mtr.		
12	EARTHING				
a)	a)Supply and fix copper plate earth station with 600X600X3mm copper plate and termination of 20 x 3 copper strip with earth station 5m in length below ground level etc. as required, 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.	1	Sets		
13	a)Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.	25	Meter		
14	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	25	Meter		
PART IV - TELEPHONE & DATA CABLE					

15	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 points not to be paid if provided. Maximum 6 no. data cable must be run in one pvc pipe.	4	no.		
16	supply, installation, testing and commissioning of 24-port Patch Panel	1	no.		
17	Supply and installation, testing and commissioning of mounted rack 15" height made of powder coated MS sheet	1	no.		
18	supply, installation, testing and commissioning of factory manufactured CAT-6e patch cord complete with 2 no. connectors etc. complete as reqd.				
a)	1 mtr. long	3	no.		
b)	2 mtr. long	3	no.		
	<u>PART-V : LIGHTS & FANS FIXTURES</u>				
19	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 BAJAJ cat. BZRSQ 43L LED GF or equivalent of Wipro / Bajaj.	2	no.		
20	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 BAJAJ cat no. 112676 BPSLR 15W WH or equivalent of Wipro / Bajaj.	3	no.		
21	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 cat no. DN - 192 - 1000 or equivalent of Wipro / Bajaj.	2	no.		
22	SITC of 400/450 mm Metal sweep wall fan Crompton/Orient/Khaitan/Bajaj with 3 pin plug complete as required. (complete metal body)	1	no.		
23	LED Strip light (4.5/5 watt) for cove (M/s Phillips /Wipro / Bajaj Complete in all respects with suitable drivers	10	MTR.		

24	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)	1	no.		
25	SITC of Automatic Programmable Time Switch 24 Hour for Glow sign board and ATM AC's (Make: L&T or equivalent to Legrand/Havells/Seimens)	1	no.		
	<u>PART-VI : AIR CONDITIONING</u> <u>REFRIGERATION/DRAIN WORKS</u>				
26	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)	20	mtr.		
27	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)	15	mtr		
28	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 electrical supply etc complete as required (Make: Havells/ RR Kable / KEI/Finolex)	25	mtr		
29	Supply, Installation, Teating and commissioning of 1.5 Tr capacity Hot and cold High Wall Split unit Air-conditioners (inverter type) with 3-star rating as per the manufacturer's specifications. (Make: Voltas, Blue star, Hitachi, Carrier)	2	Units		
	TOTAL OF PART : I +II+III+IV (A)				
	TOTAL OF PART : V+VI (B)				
	TOTAL AMOUNT (A+B)				
	GRAND TOTAL				
	Contengencies and GST as applicable shall be extra.				