ES.	ESTIMATE OF ELECTRICAL WORKS AT PROPOSED STATE BANK OF INDIA BASSI PATHANA BRANCH PUNJAB.				BRANCH
S.NO.	ITEM /SPECIFICATION	QTY	UNITS	RATE	AMOUNT
PART-I	: COMPUTER POINTS & DISTRIBUTION				
1	Supply all material, storing, handling, fixing of computer points in suitable size of GI 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, indicator (to be provided above the table top in partition) 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: Schnider/Crabtree/North-West/MK		each		
2	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing modular type 02 NO 6 pin 15/16 Amp.socket controlled by 01 no 15/16 Amp modular switch and indicator modular switch, connections etc. as required for E-lobby.	2.00	each		
3	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/ Hager/ Legrand/L&T				
a)	8 way SPN MCBDB Double Door comprising of 1 No 63 Amp DP Isolator and 06 No SPMCB 10/16 Amp. (UPS output)	1.00	no.		
b)	6 way SPN MCBDB comprising of 1 No 63 Amp DP Isolator and 4 No SPMCB 10/16 Amp.	2.00	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.	2.00	no.		
d)	4 WayTP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 63 A FP MCB and 12 Nos. 6/20 Amp SPMCBS etc complete as required. (for Light, Fan point. Raw power points).	2.00	no.		
4	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:				
a)	20 Amp with 20 Amp. C Curve SP MCB. (for UPS/record/strong room Supply and 1.5 TR / 1 TR AC's)Make: Havells/HPL/Standard/ Hager/Legrand/L&T	10.00	no.		
b)	30 Amps. with 32 Amp. DP MCB for ACS (2 TR AC's)	8.00	no.		
5	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		
	Minimum of light mainte when wainte O many wainte				
6	Wiring of light points, plug points & power 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.(Make:				
	Havells/ RR Kable / KEl/Finolex)				
	(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)	6 Amp Switch controlling 1 light point	30.00	no.		
a)	6 Amp Switch controlling 4 no. downlights or 2 no. 2'- 0"x 2'-0" 36		no.		
b)	watt light fitting	25.00	110.		
	Primary Wall fan point/Power Point controlled by 5 AMP socket	35.00	no.		
c)	controlled by 5amp switch	00.00	110.		
	Raw 15A Power Point controlled by 15 AMP socket controlled by	12.00	no.		
d)	15 AMP switch	12.00	110.		
	Note: Light points to be calculated ny numbers of lights and				
	no extra cost shall be paid for dummy switch.)				
	Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral	1.00	job		
7	link on suitable size of Bakelite sheet of thickness not less than 12		-		
	mm complete as required				
PART-I	I : PANELS & CABLES				
8	SITC of panel fabricated with 16 S.W.G.M.S. sheet. The panel				
	shall be free standing type totally enclosed dust & vermin proof				
	construction with rubber gaskets. The floor mounting panel shall				
	have ISMC mounting channels, G.I. earth bus bar, bus bar				
	chamber cable alleys interconnections with solid bar/PVC insulated				
	copper conductor as per requirement, and suitable supports of bus				
	bars. The panel shall be painted with 2 coats of enamel paint				
	(grey shade)over the primer and shall also be provided with				
	designation of incoming & outgoing feeder as per details below:-				
	INCOMING				
<u>a)</u>	1 no. MCCB breaking capacity 36KA 200 amp- 4P DN series				
b)	1 set of 250 amp 4 strips aluminium bus bar chamber				
c)	1 no. 0-500V Digital Voltmeter & Digital Ammeter with one set of				
	CTs (3no.) with CT ratio 200/5 A with LED type indication lamps				
	with protection fuses in separate compartment				
<u> </u>	OUTGOING				
a)	1 no MCCB breaking capacity 25 KA 160 amp 4P				
b)	2 no MCCB breaking capacity 10 KA 63 amp 3P with suitable	1	set		
	neutral link DN series		-		
10	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			-	
a)	1 no MCCB Breaking Capacity 25 KA 160 Amp 4P. DN series			-	
a <i>)</i>	I TO MOOD DICAKING Capacity 20 IVA 100 Allip 41. Diviseries			I	

b)	1 no 0 -500V digital Voltmeter in separate compartment and digital			
	Amp meter and one set of CTs (3 Nos) with CT Ratio 150/5 A			
	with LED type phase Indication Lamps with protection fuses in a			
	separate compartment			
	200 Amps capacity 4 strips Aluminium bus bars.			
c)				
,	OUTGOING			
a)	5 nos MCCB Breaking Capacity 25 KA 63 Amp 3P with seprate	1	set	
	neutral Link, DN series.	•		
	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			
11	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 / KEl/Finolex/Pymen)			
	(
	3.5X50 sq. mm aluminum conductors with two Nos. 8 SWG GI wire	75.00	mtr.	
a)	O.S. CO Sq. mini didimindin conductors with two 140s. o GVVG GI WIFE	7 3.00	1114.	
	3.5X25 sq. mm aluminum conductors with two Nos. 8 SWG GI wire	120.00	mtr.	1
b)	13.37.23 sq. min aluminum conductors with two Nos. 6 SVVG GI WIFE	120.00	mu.	
<u> </u>	1.0 v 16 og mm gluminum gandustars with two Nes 0 CMC CU	40.00	mtr	
c)	4.0 x 16 sq. mm aluminum conductors with two Nos. 8 SWG GI	40.00	mtr.	
	wire	00.00		
c)	3X6 sq. mm copper armored cable .	90.00	mtr.	
d)	3X2.5 sq. mm copper armored cable.	180.00	mtr.	
	Supplying and making end termination with brass compression			
10	gland and aluminium lugs for following size of PVC insulated and			
'0	PVC sheathed / XLPE aluminium/Copper conductor cable of 1.1 kV			
	grade as required.			
a)	3.5X 50 sq.mm aluminum conductor	5.00	no.	
b)	3.5X 25 sq.mm aluminum conductor	8.00	no.	
c)	4X 16 sq.mm aluminum conductor	4.00	no.	
d)	3X6 sq. mm Copper cable gland.	6.00	no.	
e)	3X2.5 sq. mm Copper cable gland.	18.00	no.	
<u> </u>	or and out min outper onale grants.			
11	UPS DISTRIBUTION BOARD			
	OF O DIOTRIBOTION 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/ Hager/ Legrand/L&T			
	as per details below :- (Two UPS distribution panel shall be			
	installed in the same ups room for the branch to accommodate ups			
	lighting in the MPSTR section also rest all wiring etc. shall be			
	separate)			
	σοραιαιο			
а	4 way DB comprising of 2 no. 63 amp DPMCB (UPS out put)	2	each	
b	4 way DB comprising of 1 no. 63 amp 4-pole TPN (UPS input)	1	each	
	Providing and laying following sizes of PVC insulated copper			
	conductor cable of 1100 V in flexible/ PVC conduit pipe with			
12	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 copper wire in	20.00	mtr.	
	PVC flexible pipe. (Make: Havells/ RR Kable / KEI/Finolex)	20.00	mu.	
	II VO HOMBIO PIPO, (ITIANO: HAVOIIS/ IXIX IXADIG / IXEI/I HIVIGA)			I

14	Supply and fixing the 1 no.4 pole 200 Amps capacity change over switch with adaptor box on suitable size of MS base and angle iron frame of suitable size and strength for installation on wall /floor including grouting of frame & painting etc. complete as required .Make: Havells/HPL/Standard/ Hager/ Legrand/L&T	1.00	no.	
15	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	1.00	Sets	
	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.			
	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.		Sets	
16	a)Supply fixing and termination of 20X3 mm copper strip with earth station below ground level etc as required.b)Supply fixing and termination of 20X3 mm G.I strip with earth		Meter Meter	
	station below ground level etc as required.			
17	a)Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.		Meter	
	b)Providing and fixing of 8 SWG GI earth wire in the recess for loop earthing etc. as required.	60.00	Meter	
18	Supply and laying following dia 2 mm in thickness PVC pipe under floor or in recessed walls from earth electrode to UPS room for computer dedicated earthing			
	25 mm diameter	80.00	Meter	
<u>PART I</u>	II- TELPHONE & DATA CABLE	10.00		
19	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. box modular plate and cover in front on surface or in recess including providing and fixing modular type telephone socket outlet and making	10.00	no.	
	necessary connections etc. complete as reqd.(Make: Dglink/KEI/Finolex)			
20	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone	1.00	no.	
21	Providing, Laying, testing & commissioning of 10 pair telephone cable from outside govt. / bsnl DB to Rack for lease line, ISDN of Make: Delton, finolex, polycab.		mtr.	
22	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: Dglink/KEI/Finolex)	17.00	no.	
	testing and ferruling (D-LinK/MOLEX/AMP/COMMSCOPE). Note: maximum 6 no. data cable must be run in one pvc pipe.			

23	supply, installation, testing and commissioning of 24-port Patch Panel of Make D-LinK/MOLEX/AMP/COMMSCOPE)	1.00	no.		
24 (b)	Supply and installation, testing and commissioning of mounted rack 15" hight made of powder coated MS sheet Make D-LinK/MOLEX/AMP/COMMSCOPE)	1.00	no.		
25	supply, installation, testing and commissioning of factory manufactured CAT-6e patch chord complete with 2 no. connectors etc. complete as reqd. (Make: Dglink/KEI/Finolex)				
	1 mtr. long	17.00	no.		
	2 mtr. long	17.00	no.		
	DART IV. CURRIEV INCTALLATION TECTING & COMMISSIONIN	10.05.5	4 N/O O E	IVTUDEO	
	PART-IV: SUPPLY, INSTALLATION TESTING & COMMISSIONING SITC of 2'x2' Celing grid 30-36 watt LED fixtures with essential			IXTURES	
26	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 / Crompton.		no.		
27	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 / Crompton.		no.		
28	SITC of 5 watt recess mounted LED down light with assembly complete with including making necessary connections etc. Complete as reqd. (M/s Crompton Cat No. Or equivalent of Philips/Wipro)	12	no.		
29	SITC of 18 watt of T5 LED fixtures 4 ft. 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.	14.00	no.		
30	SITC of 400 mm sweep wall fan etc, complete as reqd. (M/s Crompton Hi-Flo or equivalent of Crompton/Usha/Havells.)	22.00	no.		
31	LED Strip light (4.5/5 watt)for cove (M/s Phillips /Wipro / Bajaj Complete in all respects with suitable drivers	170.00	MTR.		
32	SITC of 1200 mm CEILING fans complete as reqd. (M/s Crompton High Breeze or equivalent of USHA / Bajaj).	4.00	no.		
33	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).	4.00	no.		
	TOTAL PART IV				
PART-V	/ AIR CONDITIONING WORK				
	AIR CONDITIONING WORKS				
35	Supplying & Laying of following COPPER REFRIGERANT PIPING Thickness 22 SWG For Hiwall 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. (Make: Total Line/Armacell)				
	1/4" + 1/2" Refrigerant piping - For Hiwall Split AC's	80.00	mtr.		
	HWS/Cassette A.C. (2.0 Tr) Copper pipe size (5/8" & 3/8")	100.00	mtr.		

	Supplying & laying recessed in wall Rigid ISI Mark PVC drain pipe	100.00	mtr	I	
	of size 20mm dia complete with fittings, U traps etc. & as specified		11161		
	to the nearest toilet / drain point under floor or in recessed walls for				
36	AC drains including cutting of walls, bends & Tees. making good				
	the damages etc. wherever required. (Make: Diplast/Supreme)				
	the damages etc. wherever required. (Make. Diplast/Supreme)				
	Eletrical flexible cable of 3x2.5sq.mm multi strand suitable for 1.5	180.00	mtr		
	Tr H.W Split & 2.00 Tr Cassette Multi-runs between Indoor &				
37	Outdoor units shall be considered as ONE length for the purpose of				
	measurement.(Make: Havells/ RR Kable / KEI/Finolex)				
	Dismantling of the existing air-conditioners with extreme care and	1.00	job		
38	precautions to avoid gas leakage and handing over the units to the				
	branch, required for the renovation works.				
	TOTAL				
	TOTAL OF PART I +II+III+V (A)				
	TOTAL OF PART - IV (B)				
	TOTAL AMOUNT (A+B)				
	GST as applicable shall be paid extra.				
Note: t	he vendor have to provide LAN diagram after completion of the w	vork aloi	ng with t	the bill, wit	thout it
payment will not be made.					
Note: the vendor shall make sure to provide temporary arrangements for the functioning of the branch during					
the renovation works. The vendor shall not be paid any extra amount for keeping the branch working.					
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