	BILL OF QUANTITIS FOR ELECTRICAL WORKS AT STATE BANK OF INE HARYANA.	DIA, SUKHP	URA CH	OWK BRANC	СН, ROHTAK.
_	T-I : COMPUTER POINTS & DISTRIBUTION				
1	Supply all material, storing, handling, fixing of computer points 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: Anchor/Crabtree/North-West/MK	14.00	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 01 no 15/16 Amp modular switch and indicator modular switch, connections etc. as requiredfor printer and BMcabin./ATM	5.00	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 6 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.	1.00	No		
	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 with 30mA ELCB and 12 Nos. 6/10 Amp SPMCBS etc complete as required. (for Light, Fan point.Raw power points).	1.00	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 OUTPUT AND 1.5 TR AC's) Make: Havells/HPL/Standard/ Hager/Legrand/L&T	6.00	no.		
b)	20 Amps. with 32 Amp. DP MCB for ACS	2.00	no.		

5	Providing and fixing of suitable size MS box fabricated with 16 G	1.00	job	
	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.			
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 / KEI/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			
	6 Amp Switch controlling 1 light point	20.00	no.	
b)	6 Amp Switch controlling 4 no. downlights or 2 no. 2'- 0"x 2'-0" 36	25.00	no.	
	watt light fitting			
c)	Primary Wall fan point/ Raw Power Point controlled by 5 AMP	22.00	no.	
	socket controlled by 5amp switch			
	Note: Lihgt points to be calculated ny numbers of lights and no			
	extra cost shall be paid for dummy switch.)			
8	Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral	1.00	job	
	link on suitable size of Bakelite sheet of thickness not less than 12			
	mm complete as required			
PAR	T-II : PANELS & CABLES			
9	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:			
	Panel shall be made from CPRI approved manufacturer			
	INCOMING			
	1 no MCCB Breaking Capacity 25 KA 160 Amp 4P , Model-DU250			
	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			
	200 Amps capacity 4 strips Aluminium bus bars.			
	OUTGOING			
	6 nos MCCB Breaking Capacity 10 KA 63 Amp 3P with seprate	1.00	set	
	neutral Link, DU Series, L&T make.			
10	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			
1	the damages etc complete as required of following sizes (ISI			
1	marked). (Make: Havells/ RR Kable / KEI/Finolex/Pymen)			
1				

a)	3.5X50 sq. mm aluminum conductors with two Nos. 8 SWG GI wire	65.00	mtr.	
b)	3.5X25 sq. mm aluminum conductors with two Nos. 8 SWG GI wire	100.00	mtr.	
c)	3X6 sq. mm copper armored cable .	110.00	mtr.	
_	3X2.5 sq. mm copper armored cable.	130.00	mtr.	
_	Supplying and making end termination with brass compression	150.00		
	gland and aluminium lugs for following size of PVC insulated and			
	PVC sheathed / XLPE aluminium/Copper conductor cable of 1.1 kV			
3)	3.5X 50 sq.mm aluminum conductor	5.00	no.	
_	3.5X 25 sq.mm aluminum conductor	10.00	no.	
_	3X6 sq. mm Copper cable gland.	6.00	no.	
_	3X2.5 sq. mm Copper cable gland.	60.00	no.	
u,	3AZ.3 Sq. IIIII Copper cable glatid.	00.00	110.	
12	UPS DISTRIBUTION BOARD			
12	OF 3 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/ Hager/ Legrand/L&T			
	as per details below :-			
<u> </u>	A way DR comprising of 2 no. 62 amp DRMCR (LIRC out put)	2	oach	
a	4 way DB comprising of 2 no. 63 amp DPMCB (UPS out put)		each	
b	4 way TPNDB Double Door comprising of 1 no. incoming 63 amp MCB & 3 no. 32 DPMCB	1	each	
13	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			
	2 X 6 Sq mm with 1 no suitable insulated 2.5 sq mm copper wire in PVC flexible pipe. (Make: Havells/ RR Kable / KEI/Finolex)	20.00	mtr.	
1/	Supply and fixing the 1 no.4 pole 200 Amps capacity change over	1.00	no.	
14	switch with adaptor box on suitable size of MS base and angle iron	1.00	110.	
	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			
15	EARTHING			
	a)Supply and fix copper plate earth station with 600X600X3mm	1	Sets	
1	copper plate including all accessories such as watering pipe and	1	3613	
1	funnel and providing masonry enclosure at top with cover plate			
1	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			
1	between neutral and earth must be below 1 V.			
	b)Supply and fix GI plate earth station with 600X600X6mm GI plate	2	Sets	+
	including all accessories such as watering pipe and funnel and	۷	Jets	
1	providing masonry enclosure at top with cover plate i.e excavation			
1				
	of pit, supplying and filling of salt charcoal, refilling of pit etc			
<u> </u>	complete as required as per IS 3043-1987.			<u> </u>
16	a)Supply fixing and termination of 20X3 mm copper strip with	5	Meter	
	earth station below ground level etc as required.			<u> </u>
	b)Supply fixing and termination of 20X3 mm G.I strip with earth	10	Meter	
	station below ground level etc as required.			

17	a)Providing and fixing of 8 SWG copper earth wire in the recess for	20	Meter	
	loop earthing etc. as required.			
	b)Providing and fixing of 8 SWG GI earth wire in the recess for loop earthing etc. as required.	30	Meter	
10	Supply and laying following dia 2 mm in thickness PVC pipe under			
10	floor or in recessed walls from earth electrode to UPS room for			
	computer dedicated earthing 25 mm diameter	50	Meter	
	23 mm diameter	30	ivietei	
DAD	T-III AIR CONDITIONING WORK		-	
_	Supplying & Laying of following COPPER REFRIGERANT PIPING			
19	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	105.00	mtr.	+
	HWS/Cassette A.C. (2.0 Tr & 3.0Tr) Copper pipe size (5/8" &	50.00		+
	3/8")	50.00	mtr.	
20	Supplying & laying recessed in wall Rigid ISI Mark PVC drain pipe of	60.00	mtr	
-	size 20mm dia complete with fittings, U traps etc. & as specified to	55.50		
	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)			
	The same good and the same of			
21	Eletrical flexible cable of 3x2.5sq.mm multi strand suitable for 1.5	160.00	mtr	
	Tr H.W Split & 2.00 Tr Cassette Multi-runs between Indoor &			
	Outdoor units shall be considered as ONE length for the purpose of			
	measurement.(Make: Havells/ RR Kable / KEI/Finolex)			
PAR	T IV - TELPHONE & DATA CABLE			
22	Wiring for telephone points with 0.6 mm dia 2 pair insulated	10.00	no.	
	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			
	necessary connections etc. complete as reqd.(Make:			
	1			i
<u> </u>	Dglink/KEI/Finolex)			
23	Supply, installation and testing & commissioning of Tag Block 20	1.00	no.	
	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone			
	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone Providing , Laying, testing & commisioning of 10 pair telephone	1.00	no.	
	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone Providing , Laying, testing & commisioning of 10 pair telephone cable from outside govt. / bsnl DB to Rack for lease line, ISDN of			
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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.	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. Data cabling work for computer networking starting from			
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. Data cabling work for computer networking starting from mounting rack at system room with UTP CAT-6e LAN Data cable in	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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 testing and ferruling (D-LinK/MOLEX/AMP/COMMSCOPE).	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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 testing and ferruling (D-LinK/MOLEX/AMP/COMMSCOPE). Note: maximum 6 no. data cable must be run in one pvc pipe.	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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 testing and ferruling (D-Link/MOLEX/AMP/COMMSCOPE). Note: maximum 6 no. data cable must be run in one pvc pipe. supply, installation, testing and commissioning of 24-port Patch	20.00	mtr.	
24	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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 testing and ferruling (D-LinK/MOLEX/AMP/COMMSCOPE). Note: maximum 6 no. data cable must be run in one pvc pipe. supply, installation, testing and commissioning of 24-port Patch Panel	20.00 14.00	no.	
25	Supply, installation and testing & commissioning of Tag Block 20 pair for telephone connections Make krone 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. 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 testing and ferruling (D-Link/MOLEX/AMP/COMMSCOPE). Note: maximum 6 no. data cable must be run in one pvc pipe. supply, installation, testing and commissioning of 24-port Patch	20.00	mtr.	

	cumply installation testing and commissioning of factory			1
20	supply, installation, testing and commissioning of factory manufactured CAT-6e patch chord complete with 2 no.			
20		14.00		
	1 mtr. long	14.00	no.	
	2 mtr. long PART-V: SUPPLY, INSTALLATION TESTING & COMMISSIONING OF		no.	
20	SITC of 2"x2" Celing grid 30 watt LED fixtures with essential driver	18.00	no.	
23	in false ceiling including making necessary arrangement for	10.00	110.	
	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 regd. Make Philips cat. RC 380 B- LED-30-6500PSE OD WH or			
		C4 00		
30	SITC of 15 watt LED fixtures /dowlighters with essential driver in	64.00	no.	
	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			
	regd. Make Phillips cat no. DN - 192 - 1000 or equivalent of Wipro			
				+
	SITC of 5 watt recess mounted LED down light with assembly complete with including making necessary connections etc.			
31	Complete as reqd. (M/s Crompton Cat No. Or equivalent of	6	no.	
	Philips/Wipro/ Bajaj)			
32	SITC of 18 watt of T5 LED fixtures directly on ceiling / wall including	4.00	no.	
32	making necessary connections with 2x1.5 sq.mm insulated copper	4.00	110.	
	cable conductor wire etc. complete as reqd Make Phillips cat no.			
	DN - 192 - 1000 or equivalent of Wipro / Bajaj.			
	212 1000 of equivalent of Wipro / Bajaj.			
33	SITC of 400 mm sweep wall fan etc, complete as reqd. (M/s	14.00	no.	
	Crompton Hi-Flo or equivalent of Khaitan / Bajaj.)			
34	LED Strip light (4.5/5 watt)for cove (M/s Phillips /Wipro / Bajaj	35.00	MTR.	
	Complete in all respects with suitable drivers			
35	SITC of 1200 mm CEILING fans complete as reqd. (M/s Crompton	1.00	no.	
	High Breeze or equivalent of USHA / Bajaj).			
	SITC of 200 mm exhaust fans complete with self opening louvers /	4.00	no.	
	shutters including necessary frame etc, complete as reqd. (M/s			
	Crompton High Breeze or equivalent of USHA / Bajaj).			
36				
	TOTAL OF PART I - IV (A)			1
	TOTAL OF PART - V (B)			1
				1
	TOTAL AMOUNT (A+B)			
				+
				+
				+
				+