PRICE BID							
ELECTRICAL, LIGHTING & DATA NETWORKING WORKS AT STATE BANK OF INDIA, TAHLIWAL,							
DISTT. UNA (HP)							
S.No.	Item / Specifications	Qnty.	Units	Rate	Amount		
<u>PART-1</u> 1.1	<u>Supply all material, storing, handling, fixing and laying</u> of 3X2.5 Sq. mm. 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 for computer points in suitable size of box fabricated with 16 G MS sheet including providing <u>3 nos 5 amps 3 pin modular</u> <u>sockets controlled by 1 no 5 A modular type switch</u> , indicator and fuse mounted on 3 mm thick ISI marked hylam sheet and painting of box etc complete as	16	each				
1.2	required Note; max. two computer points are to be provided on one circuit. As per item 1 above but with <u>1 Nos. 15 A 5 pin socket</u>	8	each				
1.2A	<u>controlled by 1 no 15 A switch</u> and indicator. As per item 1 above but with <u>2 Nos. 15 A 5 pin socket</u> <u>controlled by 1 no 15 A switch</u> and indicator.(for data rack)	2	each				
1.3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.						
a)	2 X 6 sq. mm + 1 X 2.5 sq. mm earth wire	20	Mtr				
1.4	EXTENSION OF WALL FAN POINTS						
	Extension of points with 2x1.5 sq.m PVC insulated FRLS copper conductor cable in suitable MS conduit in recess couduit wiring system for wall fan points with modular switches of 6AMp(to be fixed at normal height) and 5Amp 5pin modular sockets (to be fixed 1'-6" below false ceiling) as per requirement & filling the chases etc, complete as required.	12	no.				
1.5	Supply installation testing and commissioning of 3 pin 20/25 A 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain	3	each				

controlled by 1 no 20/25A SP MCB. (for air -conditioning points is to be provided starting from distribution system. each 1.6 Supply installation testing and commissioning of 3 pin 32 A 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 no 32A SP MCB. (for air -conditioning points -2.0 TR Acs) Note; Independent circuit for AC point is to be provided starting from distribution system. each 1.7 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. 1 no. a) 12 -way SPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 63 A DP Isolator and 10 Nos. 6/10 no. . c) 4 way SPB comprising of 2 nos 63A DP MCB 2 no. . c) 4 way SPB comprising of 2 nos 63A DP MCB 2 no. . c) 4 way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 180 A 4P Isolator and 12 Nos. no. . c) 4 way TPN MCBDB Double Door in recessed wall including 1 no. no. . . c) 4 way TPN MCBDB Double Door in recessed wall including 1 no. . <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
point is to be provided starting from distribution system. Image: Complex Starting from distribution system. 1.6 Supply installation testing and commissioning of 3 pin 32 A 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 no 32A SP MCB. (for air -conditioning points -2.0 TR Acs) Note: Independent circuit for AC point is to be provided starting from distribution system. 4 each 1.7 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 botts interconnection and grouting bolts etc complete as required as per details below 1 no. a) 12-Way SPM MCBB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 63 A Four Pole TPNMCB (1 no. for UPS). no. 1 b) 6 way SPM MCBB Double door in recessed wall including 1 not 4 A Way TPN MCBDB Double Door in recessed wall including 1 no. for UPS). no. 1 d) 4 way SPM MCBB Double door in recessed wall including 1 no. growthy for Wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 20/25/22 A SPMCBS etc complete as required (PDWER DB) 1 no. f) 4 Nay TPN MCBDB Double Door in recessed wall including 1 no. cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 8-32 A SPMCBS etc complete as required. (LIGMT Dbs) 1 no. <td></td> <td>controlled by 1 no 20/25A SP MCB. (for air -conditioning</td> <td></td> <td></td> <td></td>		controlled by 1 no 20/25A SP MCB. (for air -conditioning			
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Acs) Note; Independent circuit for AC point is to be provided starting from distribution system. Image: System		1 no 32A SP MCB. (for air -conditioning points - 2.0 TR			
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A MCBS etc complete as required. Image: Complete as required. b) 6 way SPN MCBDB Double door comprising 1 no 40 A Isolator and 4 Nos. 6/10 A MCBS. 1mo. c) 4 way SPDB comprising 1 no 63 A Four Pole TPNMCB (for UPS). 1mo. d) 4 way UB comprising of 2 nos 63A DP MCB 2mo. e) 4 Way TPN MCBDB Double Door in recessed wall including for wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 20/25/32 A SPMCBS etc complete as required (POWER DB) no. f) 4 Way TPN MCBDB Double Door in recessed wall including for wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs) no. g) 4 Way TPN MCBDB Double Door in recessed wall including for wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs) no. g) 4 Way TPN MCBDB Double Door in recessed wall including for wall and making good the damages comprising of 1 no 100 A 4P Isolator and 6 Nos. 32 A DPMCBS etc complete as required -AC DB (8DP-AC's, 1-spare) no. 1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB 9 no.		including cutting of wall and making good the damages			
b) 6 way SPN MCBDB Double door comprising 1 no 40 A 1 no. Isolator and 4 Nos. 6/10 A MCBS. 1 no. c) 4 way SPDB comprising 1 no 63 A Four Pole TPNMCB (for UPS). 1 no. d) 4 way DB comprising of 2 nos 63A DP MCB 2 no. e) 4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 20/25/32 A SPMCBS etc complete as required (POWER DB) no. f) 4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs) no. g) 4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs) no. g) 4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 6 Nos. 32 A DPMCBS etc complete as required -AC DB (8DP-AC's, 1-spare) no. 1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB g no.		comprising 1 no 63 A DP Isolator and 10 Nos. 6/10			
Isolator and 4 Nos. 6/10 A MCBS.Image: Comprising 1 no 63 A Four Pole TPNMCB (for UPS).1no.d) 4 way SPDB comprising of 2 nos 63A DP MCB2no.Image: Comprising of 2 nos 63A DP MCB2d) 4 way DB comprising of 2 nos 63A DP MCB2no.Image: Comprising of 2 nos 63A DP MCB1e) 4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 20/25/32 A SPMCBS etc complete as required (POWER DB)1no.f) 4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs)1no.g)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 6 Nos. 32 A SPMCBS etc complete as required -AC DB (8DP-AC's, 1-spare)1no.1.8Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB9no.		A MCBS etc complete as required.			
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for UPS).Image: state of the sta		Isolator and 4 Nos. 6/10 A MCBS.			
d)4 way DB comprising of 2 nos 63A DP MCB2no.e)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 20/25/32 A SPMCBS etc complete as required (POWER DB)1no.f)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs)1no.g)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs)1no.g)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 6 Nos. 32 A DPMCBS etc complete as required -AC DB (8DP-AC's, 1-spare)1no.1.8Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB9no.	c)	4 way SPDB comprising 1 no 63 A Four Pole TPNMCB (1	no.	
e)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 20/25/32 A SPMCBS etc complete as required (POWER DB)1no.f)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs)1no.g)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT Dbs)1no.g)4 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising of 1 no 100 A 4P Isolator and 6 Nos. 32 A DPMCBS etc complete as required -AC DB (8DP-AC's, 1-spare)no.1.8Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB9no.		for UPS).			
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socket arrangement with plug top, cap and chain controlled by 1 No MCB(a)20 Amps. with 25 Amp. SP MCB.9no.	1.8				
controlled by 1 No MCB(a)20 Amps. with 25 Amp. SP MCB.99no.					
(a) 20 Amps. with 25 Amp. SP MCB. 9 no.					
b) 30 Amps. with 63 Amp. SP MCB. 3 no.				no.	
	b)	30 Amps. with 63 Amp. SP MCB.	3	no.	

1.10	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	
	TOTAL OF PART -I			
PART-	II : PANELS & CABLES			
2.1	Providing and fixing of 3 nos 100 Amps Kitkat with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 25 mm complete as required	1	job	
2.2	Supply at site installation testing and commissioning of wall mounted cubicle type electrical panel comprising MCBs, bus bar, cable alleys etc fabricated with 16 G MS sheet and baked or spray enamel painted complete with rubber gaskets name plate interconnection etc. The panel shall consist of:	1	no.	
	INCOMING			
a)	1 no MCCB Breaking Capacity 35 KA 125 Amp 4P , DN Series, L&T make.			
b)	1 no 0-500V Voltmeter with selector switch in separate compartment and Amp meter with selector switch and one set of CTs (3 Nos) with CT Ratio 100/5 A with LED type Indication Lamps with protection fuses in a separate compartment			
c)	160 Amps capacity 4 strips Aluminum bus bars.			
	OUTGOING			
a)	5 no MCCB Breaking Capacity 25 KA 63 Amp 3P & . DN Series, L&T make.			
2.3	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)			
a)	3.5X50 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	0	mtr.	
b)	3.5X35 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	0	mtr.	

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c)	3.5x25 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	45	mtr.	
d)	4X10 sq. mm aluminum conductor with one no 8 SWG GI wire.	40	mtr.	
e)	3X6 sq. mm copper conductor armoured .	20	mtr.	
f)	3X2.5 sq. mm copper conductor armoured for ACS	25	mtr.	
-				
2.4	End termination with brass compression glands			
	including providing of lugs/ferrules and making			
	necessary connection etc complete as required of the			
	following sizes:			
a)	3.5X50 sq. mm aluminium conductors	0	no.	
b)	3.5X35 sq.mm aluminum conductor	0	no.	
c)	3.5X25 sq. mm aluminum conductors	8	no.	
d)	4X10Sq.mm aluminum conductor	6	no.	
e)	3X6 sq. mm copper conductor	4	no.	
f)	3X2.5 sq. mm copper conductor	20	no.	
-				
2.5	Providing and fixing the following switch 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			
a)	1 no.4 pole 100 Amps capacity change over switch with	1	no.	
	adaptor box			
2.6	Providing and fixing 16 G MS sheet adopter box and also			
	base frame for installation of MCB DBs plug and socket			
	arrangements and to cover cables in system room			
	including painting etc complete as required.			
	for UPS input/output distribution	1	no.	
	TOTAL OF PART -II			
PART-	III : EARTHING			
3.1	Supply and fix copper plate earth station with	1	set	
(a)	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.			
(b)	Supply and fix GI plate earth station with	2	set	
	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,			

				1	
	supplying and filling of salt charcoal, refilling of pit etc				
	complete as required as per IS 3043-1987.				
3.2	Supply fixing and termination of 20X3 mm copper strip	3	mtr.		
(a)	with earth station below ground level etc as required.				
(b)	Supply fixing and termination of 32x6 mm G.I. strip with	6	mtr.		
	earth station below ground level etc as required.				
3.3	Providing and fixing of 8 SWG copper earth wire in the	15	mtr.		
(a)	recess for loop earthing etc. as required.				
(b)	Providing and fixing of 8 SWG GI earth wire in the recess	40	mtr.		
(5)	for loop earthing etc. as required.	10	inter.		
3.4	Supply and laying following dia 3.38 mm(Confirming				
a)	to ASTM D1785 Standard) in thickness heavy duty PVC				
a)	pipe under floor or in recessed walls for AC drains.				
	including bends Tees Etc. making good the damages				
	etc. wherever required				
<u> </u>	25mm	90	mtr.		
b)	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				
	including bends Tees Etc. making good the damages				
	etc. wherever required				
	25 mm diameter	60	mtr.		
	TOTAL OF PART -III				
PART-	IV : AC PROVISIONING (COPPER PIPE, WIRING ETC)				
4.1	Supply, Installation, testing & commissioning of				
	refrigeration pipe including cutting of wall & fixing with				
	suitable saddles or clamps, providing suitable sizes of				
	sleeves for passing refrigerant pipe from indoor to				
	outdoor unit including making neccessary arrangement				
	etc. complete as required.	05	- +		
a)	Hi Wall Split AC (1.0 & 1.5TR), copper pipe size (1/2" &	35	mtr.		
b)	HWS / Cassette AC (2.0TR & 3.0TR) copper pipe size	80	mtr		
	(5/8" & 3/8")				
4.2	Cutting of floor / wall for refrigerant /drain pipe	60	mtr		
	including making good the damages complete as				
	required, excluding the area having ceramic floor tiles,				
	where chased floor will be got repaired by the firm				
	executing AC installion work, However, the ceramic tiles				
	will be got fixed by the Bank.				
4.3	Supply & laying of 4 core 2.5sq.mm. FRLS copper	140	mtr		
	flexible cable for HWS / Cassette AC, Make - FINOLEX /				
	POLYCAB / HAVELLS / PYEMEN / ECKO				
L	1			1	1

4.4	Supply & laying of 3 core 2.5sq.mm. FRLS copper flexible cable for HWS AC, Make - FINOLEX / POLYCAB / HAVELLS / PYEMEN / ECKO TOTAL OF PART - IV	40	mtr	
PART-	-V : TELEPHONE .			
5.1	Wiring for telephone points with 0.6 mm dia 2 pair	7	no.	
	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 necessary connections etc. complete as reqd.			
5.2	Supply installation and testing of Tag Block 10 pair for telephone connections	1	no.	
5.3	Supply and fixing 10 Pair Telephone Cable	35	mtr	
	TOTAL OF PART - V			
PART-	VI : NETWORKING			
6.1	Wiring for computer net working starting from mounting	18	No	
	rack with UTP Cat 6 cable in 2 mm thick 25 mm dia ISI marked PVC conduit pipe with accessories such as bends, junction boxes including providing and fixing I/O plates and SMB complete with all networking accessories etc complete as required			
6.2	Supply & Installation testing and commissioning of 24 port Patch Panel, complete in all respects.	1	No	
6.3	Supply & Installation testing and commissioning of mounting rack 9 U high made of powder coated MS sheet complete.	1	No	
6.4	Supply Fixing and commissioning of Patch cable cat 6 of complete with 2 nos of connectors etc complete as required.(factory manufactured)			
	(a) 1 meter long	18	No	
	(b) 2 meter long	8	No	
	TOTAL OF PART - VI			
PART	VII : SITC OF FANS & FIXTURES			
7.1	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	20	no.	

		1	r	1	
	as reqd. Make Philips cat. RC 380 B- LED-30-6500PSE OD				
	WH or equivalent of Wipro / Bajaj / Crompton.				
7.2	SITC of 15 watt recess mounted LED down light with	9	no.		
	assembly complete with including making necessary				
	connections etc. Complete as reqd. (M/s Crompton Cat				
	No. Or equivalent of Philips/Wipro/ Bajaj)				
7.3	SITC of 9watt RECESS MOUNTED LED down light with	6	no.		
	assembly complete with including making necessary				
	connections etc. Complete as reqd. (M/s Crompton Cat				
	No. Or equivalent of Philips/Wipro/ Bajaj) in PASSAGE				
7.4	SITC of 450 mm sweep metal body wall fan complete	10	no.		
	as reqd.(M/s Crompton Metal frame or equivalent of				
	Khaitan / Bajaj				
7.5	SITC of Exhaust Fan 12 inch dia, metal body of	4	no.		
	CROMPTON / BAJAJ /KHAITAN				
7.6	Supply of reccess 5/7 watt LED COB spotlight assembly	4	no.		
	with driver complete as reqd. Phillips ASTRASPOT 7W or				
	equivalent of Wipro / Bajaj .				
7.7	Supply Installation, testing & commissioning of 5W LED	30	mtr		
	STRIP light with driver and Accessories complete as				
	required (MS CROMPTON or equivalent of WIPRO ,				
	PHILLIPS, BAJAJ etc.				
7.8	SITC of 18 /20 watt of T5 LED fixtures directly on	5	no.		
	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.				
7.9	SITC of 30 watt LED Street light /Flood light for lighting	2	no.		
	the front side of the branch(M/s Crompton Cat No.				
	LSTS-30-CDL or equivalent of Philips/Wipro .				
	TOTAL OF PART -VII				
	SUMMARY				
	TOTAL OF PART I-VI(A)			А	
	TOTAL OF PART - VII (B)			В	
	TOTAL (A+B)				
AMOUI	NT IN WORDS:				