

PRICE BID

**ELECTRICAL, DATA, TELPHONE & LIGHTING WORKS AT STATE BANK OF INDIA, KNJ
SCHOOL BRANCH, FARIDKOT**

S.No.	Item / Specifications	Qnty.	Units	Rate	Amount
PART-I : COMPUTER POINTS & DISTRIBUTION					
1.1	Supply all material, storing, handling, fixing of computer points computer 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 complete as required including 3X2.5 sq. mm copper armored cable, including termination & glands complete. Note: Maximum two computer points are to be provided on one circuit. (Switches : Make: Anchor/Crabtree/North-West/MK	16	each		
1.2	As per item 1 above but with <u>1 Nos. 15 A 5 pin socket controlled by 1 no 15 A switch</u> and indicator. (RAW POWER)	20	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	POINT WIRING:				
	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	23	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	23	no.		
c)	single 6Amp socket controlling by 5Amp Modular switch in switch boards etc complete as required	7	no.		
d)	Primary wall fan point including 5Amp socket, controlled by 5Amp switch	12	no.		

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e)	1 no. 15Amp 5 pin socket controlled by 1no. 15Amp switch for Record/Cash/Gold Safe Room, including 3Pin/15Amp top etc., complete as required.	1	no.		
	Note: Lights/fans points to be calculated by numbers of lights and no extra cost shall be paid for dummy switch.				
1.5	DISTRIBUTION BOARDS				
	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				
a)	6-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 6 Nos. 6/10 A MCBS etc complete as required.	2	no.		
b)	8-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 6 Nos. 6/10 A MCBS etc complete as required.	1	no.		
b)	6 way SPN MCBDB Double door comprising 1 no 40 A Isolator and 4 Nos. 6/10 A MCBS.	1	no.		
c)	4 way SPDB comprising 1 no 63 A Four Pole TPNMCB (for UPS INPUT).	1	no.		
d)	4 way DB comprising of 2 nos 63A DP MCB (UPS OUTPUT)	3	no.		
e)	ACDB: 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. (for Air conditioning only).	1	no.		
f)	LIGHTING DB: 4 WayTP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 30A ELCB and 12 Nos. 6/10 Amp SPMCBS etc complete as required. (for Light, Fan point, Raw power points).	1	no.		
g)	RAW POWER DB: 4 WayTP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 63 A FP TPN and 12 Nos. 16/20/25 Amp SPMCBS etc complete as required. (for Raw Power Only)	1	no.		
1.6	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				
(a)	20 Amps. with 25 Amp. SP MCB. - UPS OUTPUT	4	no.		
b)	30 Amps. with 32 Amp. SP MCB. - UPS INPUT	3	no.		

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1.7	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 controlled by 1 no 20/25A SP MCB. (for air -conditioning points - 1.5 TR Acs) Note; Independent circuit for AC point is to be provided starting from distribution system.	3	each		
1.8	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.	5	each		
1.9	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 160 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	MAIN PANEL:				
	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 25 KA 160 Amp 4P , Model-DU250 Series, L&T make				
b)	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				
c)	160 Amps capacity 4 strips Aluminium bus bars.				
	OUTGOING				
a)	1 nos MCCB Breaking Capacity 25 KA 160Amp 3P with seprate neutral Link, DU Series, L&T make.				
b)	1 nos MCCB Breaking Capacity 25 KA 100Amp 4P with seprate neutral Link, DU Series, L&T make.				
c)	4 nos MCCB Breaking Capacity 25 KA 63Amp 4P with seprate neutral Link, DU Series, L&T make.				

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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.	30	mtr.		
b)	3.5X35 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	5	mtr.		
c)	3.5X25 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	46	mtr.		
d)	4x16 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	0	mtr.		
e)	4X10 sq. mm aluminum conductor with one no 8 SWG GI wire.	14	mtr.		
f)	3X6 sq. mm copper conductor armoured .	36	mtr.		
g)	3X2.5 sq. mm copper conductor armoured for ACS	120	mtr.		
2.5	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	3	no.		
b)	3.5X35 sq. mm aluminium conductors	2	no.		
c)	3.5X25 sq.mm aluminum conductor	6	no.		
d)	4x16 sq. mm aluminum conductors	0	no.		
e)	4X10Sq.mm aluminum conductor	2	no.		
f)	3X6 sq. mm copper conductor	4	no.		
g)	3X2.5 sq. mm copper conductor	16	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 .				
	1 no.4 pole 160 Amps capacity change over switch with adaptor box	1	no.		
2.7	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 (a)	Supply and fix copper plate earth station with 600X600X3mm copper plate with 5M length 20x3mm size copper strip below Ground Level, including all accessories such as watering	1	set		

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1.	2.
3.	4.
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	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 600X600X6mm GI plate with 5M length 20x3mm size GI strip below Ground Level 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.	2	set		
3.2 (a)	Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.	65	mtr.		
(b)	Providing and fixing of 8 SWG GI earth wire in the recess for loop earthing etc. as required.	20	mtr.		
3.3	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	65	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 necessary arrangement etc. complete as required.				
a)	Hi Wall Split AC (1.0 & 1.5TR), copper pipe size (1/2" & 1/4")	22	mtr.		
b)	HWS / Cassette AC (2.0TR & 3.0TR) copper pipe size (5/8" & 3/8")	120	mtr		
4.2	Cutting of floor / wall for refrigerant /drain pipe 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.	30	mtr		
4.3	Supply & laying of 4 core 2.5sq.mm. FRLS copper flexible cable for HWS / Cassette AC, Make - FINOLEX / POLYCAB / HAVELLS / PYEMEN / ECKO	70	mtr		
4.4	Supply & laying of 3 core 2.5sq.mm. FRLS copper flexible cable for HWS AC, Make - FINOLEX / POLYCAB / HAVELLS / PYEMEN / ECKO	39	mtr		
TOTAL OF PART - IV					

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PART-V : TELEPHONE					
5.1	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolytic 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.	8	no.		
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	20	mtr		
	TOTAL OF PART - V				
PART-VI : NETWORKING					
6.1	Wiring for computer networking starting from mounting 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	16	No		
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	16	No		
	(b) 2 meter long	9	No		
	TOTAL OF PART - VI				
PART-VII : SITC OF FANS & FIXTURES					
7.1	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 : Cat No: BZRSQL 43L LED GF of Bajaj or equivalent of Wipro /Philips (120 Lumens per Watt, Color temperature 6000K)	30	no.		
7.2	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 / Bajaj.	30	no.		

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7.3	SITC of 9watt 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/ Bajaj) in PASSAGE	0	no.		
7.4	SITC of 450 mm sweep metal body wall fan complete as reqd.(M/s Crompton Metal frame or equivalent of Khaitan / Bajaj)	12	no.		
7.5	SITC of Exhaust Fan 250mm dia, metal body of CROMPTON / BAJAJ /KHAITAN	2	no.		
7.6	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)	2	no.		
7.7	SITC of 1200 mm CEILING fans complete as reqd. with regulator to be provide in the switch board (M/s Crompton High Breeze or equivalent of USHA / Bajaj).	3	no.		
7.8	Supply of recess 5/7 watt LED COB spotlight assembly with driver complete as reqd. Phillips ASTRASPOT 7W or equivalent of Wipro / Bajaj .	6	no.		
7.9	Supply Installation, testing & commissioning of 5W LED STRIP light with driver and Accessories complete as required (MS CROMPTON or equivalent of WIPRO , PHILLIPS, BAJAJ etc.	45	mtr		
7.10	SITC of 18/20 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 / Bajaj.	8	no.		
7.11	SITC of 30 watt LED 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 .	4	no.		
TOTAL OF PART -VII					
SUMMARY					
TOTAL OF PART I-VI(A)					
TOTAL OF PART - VII (B)					
TOTAL (A+B)					

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