BILL OF QUANTITY OF ELECTRICAL WORKS N/W: PROVIDING ELECTRICAL WORKS FOR INDIAN BANK , SHERGHATI BRANCH AND ATM

Α.	SUB HEAD-I (WIRING)				
В.	SUB HEAD-II (DISTRIBUTION BOARDS & PANELS)				
С.	SUB HEAD-III (SUPPLY OF FIXTURES & FANS)				
_	SUB HEAD-IV (SUPPLY & MAKING OF EARTHPITS,				
D.	REMOVING OF ITEMS, RUBBER MAT)				
E	SUB HEAD - V (NETWORKING) LAN CABLING WORK				
F	SUB HEAD - VI (ATM WORK)				
•	TOTAL-				
	G.S.T(Extra as applicable)				
NO.	ITEM OF WORK	UNIT	QTY	RATE	AMOUNT
	 D - I (WIRING)				
	Point wiring with 1100 V grade 3 nos. single core 1.5 sq.mm.FR and 1.5 sq.mm.for earth PVC insulated stranded copper conductor wire (IS:694)				
	through suitable size PVC conduit (ISI marked)by thred cutting, complete				
	with junction box, circular box, elbows, bends, couplers and other				
	accessories on surface above false ceiling or concealed by chase cutting				
	on wall from light & fan switch board to light, fan & 6A socket outlet on				
	the same switch board or separately mounted switch board. The work				
	includes supply and fixing of all materials such as modular type 6A				
	switch for light and fan point, 6A 2/3 pin shuttered socket outlet with				
	switch in each switch board for wall fan , 3 plate ceiling rose / angle or				
	batten holder etc. as required. The point wiring also includes circuit				
	wiring with 1100 V grade 2 nos. single core 2.5 sq.mm.FR + 1 no. single				
	core 1.5 sq.mm.FR PVC insulated stranded copper conductor cable				
	(IS:694) through suitable size PVC conduit as described above from DB to				
	switch board, interconnection, mending good all damages to original				
	finish, painting etc. (maximum ten switch for one circuit)				
	initish, panting etc. (maximum ten switch for one circuit)				
а	1 Light control & ,ceiling fan ,exhaust fan by 1 switch	Each	30		
b	2 Light control by 1 switch	Each	11		
С	Wall fan point with 6A 3 pin modular socket & 5/6 amps modular switch	Each	10		
	Supply & fixing suitable size GI box with modular plate and cover in front				
2	on surface/ in recess i/c pvdg & fixing 5 pin 5/6 amp modular socket outlet and 5/6 amps modular switch, connection, painting etc as reqd.	Set	7		
	Supply & fixing AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN				
	MCB and socket outlet, all fixed on a modular plate complete with metal				
3	box and recessed in wall as reqd. With Wiring for A.C. Point with 2 x 4	Each	5		
5	sqmm FR PVC insulated copper conductor single core cable in	20011	acii 5		
	surface/recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated copper conductor single core cable for loop				
	earthing as required				
	Sub Main Wiring from LT Panel to Light D.B., JLT Panel to RAW feed D.B.,				
	from LT Panel to UPS Panel & UPS Panel to UPS D.B. with 2 x 6 sqmm FR				
	PVC insulated copper conductor single core cable in surface/ recessed				
4	PVC conduit / PVC Casing - n Capping along with 1 x 6 sq mm FR PVC	Mtr.	80		
	insulated copper conductor single core cable for loop earthing as				
	required. The rate should be quoted considering wastage. The				
	measurement shall be taken to the place where the wire start and end.				



				1
5	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 6 pin 15/16 amp modular socket outlet and 15/16 amps modular switch, connection, painting etc as reqd. with Circuit wiring with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 1.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. With	Each	4	
6	Supply & fixing remote controlled call bell buzzer suitable for 230 V AC/ Battery operated with remote type bell push as reqd.	nos.	1	
7	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with modular type switch for UPS Power and 2 no. 5 pin 5/6 amp modular socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box for RAW Power. As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for computer with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Each	8	
8	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with 1 nos 15 amp modular type switch for UPS Power. As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. The circuit wiring is to be done from UPS PANEL till the location of NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM & connected to 6/10amp mcb mentioned in SUB HEAD II point no-4.	Each	3	
9	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-11 socket etc complete in all respect conduits as required.(Each Section Head work station have 2 no. of RJ 11 Socket) with Supplying and drawing 2 pair 0.5 sqmm FR PVC insulated annealed copper conductor, unarmored telephone cable in PVC conduit as required.	Each	5	
10	Supply & fixing of 10 pairs MDF box with crone termination for all points	Each	1	
11	Supply & fixing Of 15Amp Modular Switch & Socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box along with 15 TOP outside Strong Room. The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm.FR + 1 no. single core 1.5 sq.mm.FR PVC insulated stranded copper conductor cable (IS:694) through suitable size PVC conduit from this box to strong room switch board. The wiring from light DB to this box is already included in point wiring description.	Each	1	
1	- II (DISTRIBUTION BOARDS & PANELS) Supplying & Fixing following ways three pole and neutral sheet steel MCB DB, 415 volts on surface/ recessed complete with tinned copper busbar, neutral busbar, earth bar din bar detachable gland plate interconnections, phosphatised and powder painted i/c earthing etc as reqd. (But without MCB / RCCB/Isolator)			



	A) 2+12/16 Way double door SPN DB.	Each	3		
	Supply & fixing 5 amps to 32 amps rating 240 V 'C' series MCB suitable				
2	for inductive load of following poles in the existing MCB DB complete				
2	with connections, testing and commissioning etc as reqd.				
				_	
	a) 6/10 A 10 KA SP MCB "B"	Each	35	_	
	b) 40 A 10 KA DP MCB "C"	Each	3		
	Supply & fixing of indoor cubicle extensible type fully				
	compartmentalized Distribution panel suitable for operation on 415				
	volts 50 Hz 3 phase 4 wire AC distribution system, suitable for 35 KA				
	short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof				
	enclosure, having hinged and earthed cover on front, having neoprene				
	gasket/ katings stuck to the doors, duly painted with 65- 75 microns				
	thick dry epoxy powder paint after 7 tank process of degreasing,				
	derusting etc comprising of the following switchgears complete with all				
	interconnections with suitable size of copper strip/hard drawn PVC				
	insulated copper cable i/c keeping the panel in position, minor civil				
3	works as necessary, painting, sign writing etc complete as required (as				
5	per specifications of Panel attached)				
	TEST REPORT:				
	FOLLOWING REPORTS HAVE TO BE PROVIDED BY THE VENDOR AT THE				
	TIME OF SUBMISSION OF BILL:. 1) FINAL AS BUILT PLAN IN THREE COPIES DRAWN TO THE SCALE,				
	PRINTED IN CASE OF CAD AND BLUE PRINT, IN CASE OF MANUAL				
	DRAWING.				
	2) QUALITY REPORT INDICATING THE ITEMS USED WITH THEIR MAKES.				
	3) PANEL MANUFACTURER'S CPRI TEST REPORT.				
	4) ROUTINE TEST REPORT OF PANEL FOR IR & HV TEST.				
	5) (Panel Size- H-1400mm, W-900mm & D-300mm)				
				_	-
	a) 125 amp 4 pole MCCB not less than 25 KA having Thermo magnetic type release for a range of 80% to 100% for Overload and short circuit				
	complete with rotary handle etc as regd.: 1 no				
	b)100 amp 4 pole heavy duty I-II-I type cubicle changeover switch: 1 no				
	METERING:				
	a) Multifunctional meter displaying A/V/PF & Hz along with 3 nos				
	Suitable size CTs & HRC type protection fuse etc as reqd: 1 nos				
	c) LED type phase indicationg lamp in phase distinguishing colors with				
	HRC fuse : 6nos				
				1	1
					_
	BUS BAR:				
	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper				
	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC				
	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct				
	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC				
	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as read: 1 set Emergency Load Bus Bar: 4 strip 200 amp bus bar made of electrical copper strip enclosed in separate bus bar chamber, provided with DMC/				
	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as read: 1 set Emergency Load Bus Bar: 4 strip 200 amp bus bar made of electrical copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in				
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	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as read: 1 set Emergency Load Bus Bar: 4 strip 200 amp bus bar made of electrical copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as read: 1 set OUTGOINGS: 40 amp, 10 KA D Series FP MCB : 3 nos.				
	BUS BAR: Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as read: 1 set Emergency Load Bus Bar: 4 strip 200 amp bus bar made of electrical copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as read: 1 set OUTGOINGS:				



	63 A rotary type Phase selector: 1 no for UPS				
	63 amp DP Manual Change Over For UPS Charging-1 nos.	Set	1		
	SITC of indoor cubicle type UPS panel suitable for operation on 415				
	volts 50 Hz, 3 phase 4 wire AC distribution system, AC supply, suitable				
	for 35 KA short circuit rating, confirming to IP:42 degree of protection,				
	made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust &				
	vermin proof enclosure, having hinged and earthed cover on front,				
4	having neoprene gasket/ katings stuck to the doors, duly painted with 65				
-	75 microns thick dry epoxy powder paint after 7 tank process of				
	degreasing, derusting etc comprising of the following switchgears				
	complete with all interconnections with suitable size of copper				
	strip/hard drawn PVC insulated copper cable i/c keeping the panel in				
	position, minor civil works as necessary, painting, sign writing etc				
	complete as required.				
	METERING:				
	a) Digital Volt meter displaying voltage with 3 nos HRC type protection				
	fuse etc as reqd: 1 nos				
	b) 6/10 A 10 KA SP MCB "B": 3 nos for NETWORK SWITCH, CCTV & FIRE				
	ALARM SYSTEM to be connected with required wiring with UPS output				
	UPS INPUT & OUT PUT			<u> </u>	
	4 no 40 A SPN MCB 10KA with 4 no 40 amp Industrial type socket out let				
	and Top with connection o/g MCB with PVC insulated copper conductor	nos.	1		
	wire as required (For 2 no. main input and 1 no. output)				
	TOTAL SUB HEAD-II				
) - III (SUPPLY OF FIXTURES & FANS)				
UB HEAL				-	
UB HEAL					
	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for	Each	2		
1		Each	2		
	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for	Each	2		
	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application.	Each	2		
	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing	Each	2		
1	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc				
1	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing				
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1	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge				
2	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling	Each	2		
1	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by				
2	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by	Each	2		
2	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by	Each	2		
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2	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED	Each	2		
1 2 3	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd.	Each	2		
2	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED	Each	2		
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1 2 3	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as reqd. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and	Each	2		
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1 2 3	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required. Supplying, installation, testing & fixing of 1X36 W LED tube light fitting	Each	2		
1 2 3 4	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required.	Each Each Each	2 13 22		
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1 2 3 4 5	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required. Supplying, installation, testing & fixing of 1X36 W LED tube light fitting powder coated batten with PC tube	Each Each Each Each	2 13 22 7		
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1 2 3 4 5	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required. Supplying, installation, testing & fixing of 1X36 W LED tube light fitting powder coated batten with PC tube	Each Each Each Each	2 13 22 7		
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1 2 3 4 5	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application. Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as reqd. Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required. Supplying, installation, testing & fixing of 1X36 W LED tube light fitting powder coated batten with PC tube Supplying, installation, testing & fixing of Exhaust fan 300mm sweep HEAVY DUTY EXHAUST make- CROMPTON / approved equivalent. (UPS	Each Each Each Each	2 13 22 7		
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8	Supplying, installation, testing & fixing of oscillating and tilting type Metal body wall mounted fan of 450 mm sweep, 80/100watt, 1300 to 1500 rpm, fixing the same on wall, connection with 1.5 sqmm PVC insulated copper conductor, testing, commissioning etc as required.	Each	8		
	TOTAL SUB HEAD-III				
UB HEAD	- IV (SUPPLY & MAKING OF EARTHPITS, REMOVING OF ITEMS, RUB	BER MAT)			
1	Providing chemical/mineral maintenance free earthing system comprising of copper coated earth electrode 3 metre length and 17.2 mm outer dia along with 25 kg earth conductivity enhancing back fill mineral compound for earth inspection pit etc. as required. OR Earthing with copper earth plate 600 mm X 600 mm X3 mm thick including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc.with charcoal / coke	Set	3		
					_
4	S/L 4 mm dia copper wire on surface or in recess as reqd.	Mtr.	50	 	
5	High voltage insulation mat are relatively thin mats of thicknes (2mm to 3.5mm) made of elastomeric polymers materials having a high insulation restance, thus imparting total safety of humen being from any leakage current.(UPS Room)	Sqft	35		
6	KIT-KUT:- Supply and fitting of 3 nos. 200 Amp. Porcelien Kit Kut on suitable size of wooden board including connections etc. as required.	SET	1		
7	Dismantle & Removal of all existing electrical items i.e. wiring, wall fans, ceiling fans lights, DB's, Main Panel etc.of Branch & ATM , debris from site, carrying and disposal of malba to dumpyard. as per bank/branch incharge direction.	Lumpsum	0		
	TOTAL SUB HEAD-IV				
UB HEAD	- V (NETWORKING) LAN CABLING WORK			•	
16	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-45 socket etc complete in all respect including cat-6 Data cable conduits, identification of the hub				
	a) RJ-45 socket	Set.	8		
	b) Cat-6 Data cable with PVC conduit	Mtr.	295		
			200		
19	Supply & fixing Commissioning of 20 line Net-working hub all complete as required.	Set.	1		
20	Supply & fixing Commissioning of 2 Meter Patch Cord as required, all complete as per requirment.	Set.	8		
	TOTAL SUB HEAD-V			~	
UB HEAD	<u>) - VI (ATM WORK)</u>				



1	Point wiring with 1100 V grade 3 nos. single core 1.5 sq.mm.FR and 1 for earth PVC insulated stranded copper conductor wire (IS:694) through suitable size PVC conduit (ISI marked)by thred cutting, complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall from light & fan switch board to light, fan & 6A socket outlet on the same switch board or separately mounted switch board. The work includes supply and fixing of all materials such as modular type 6A switch for light and fan point, 6A 2/3 pin shuttered socket outlet with switch in each switch board, 3 plate ceiling rose / angle or batten holder etc. as required. The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm.FR + 1 no. single core 1.5 sq.mm.FR PVC insulated stranded copper conductor cable (IS:694) through suitable size PVC conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting etc. (maximum ten switch for one circuit)			
а	1 Light control by 1 switch	Each	1	
b	2 Light control by 1 switch	Each	3	
С	Exhaust fan and Glow sign board point	Each	2	
2	Supply & fixing AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd. With Wiring for A.C. Point with 2 x 4 sqmm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required	Each	2	
3	Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd.	Each	1	
4	Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required.	Each	6	
5	Supplying, installation, testing & fixing of 1X36 W LED tube light fitting powder coated batten with PC tube	Each	2	
6	Supplying & Fixing following ways three pole and neutral sheet steel MCB DB, 415 volts on surface/ recessed complete with tinned copper busbar, neutral busbar, earth bar din bar detachable gland plate interconnections, phosphatised and powder painted i/c earthing etc as reqd. (But without MCB / RCCB/Isolator)			
a)	4+18 Way double door TPN D.B.	Each	1	
7	Supply & fixing 5 amps to 32 amps rating 240 V 'C' series MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.			
i	a 63 A 25 KA FP MCB	Each	1	
ł	40 A 10 KA DP MCB "C" (For UPS INPUT)	Each	1	
	25 amp Single pole & Neutral MCB 10 KA D Series: 2 nos (For AC)	Each	2	
	i 6/10 A 10 KA SP MCB "C" (For Light CKT)	Each	2	



	I		1	1	1		
8	UPS INPUT & OUTPUT with 1.no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd. As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for computer with 2 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	SET	2				
9	Supply & fixing of computer point with 4 no. 5 pin 15 amp modular socket with modular type switch for UPS Power phenolic laminated sheet suitable size PVC/G.I. box . As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for computer with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Each	1				
10	Providing chemical/mineral maintenance free earthing system comprising of copper coated earth electrode 3 metre length and 17.2 mm outer dia along with 25 kg earth conductivity enhancing back fill mineral compound for earth inspection pit etc. as required. OR Earthing with copper earth plate 600 mm X 600 mm X3 mm thick including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc.with charcoal / coke	Set	1				
11	Providing & laying earth connection from earth electrode with 4 mm dia copper wire in earth electrode as required.	Mtr.	18				
12	Supply & laying for Sub Main Wiring from LT Panel to ATM D.B. with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 1X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	20				
	TOTAL SUB HEAD-VI		1	1			
	NOTE:-						
	1. The Circuit wiring of Switch board in Strong Room is to be conne	ected throu	igh 15 AMP	top outside	strong room with		
	2. The UPS point wiring for NETWORK SWITCH, CCTV & FIRE ALAR	M SYSTEM	is to be dor	ne from UPS I	Panel.		
	3. PROPER NAMING OF MCCB, MCB INSTALLED IN MAIN PANEL, D	B'S should	be done.				
	4. Vendor has to quote final rate after discount/less.						
	5. Wiring must be with colour code.		r	1	1		

