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BILL OF QUANTITY FOR ELECTRICAL WORKS

UCO BANK MAIN AYODHYA BRANCH & A.T.M

REGIONAL OFFICE AYODHYA

S.No.	Particulars	Unit	Qty.	Rate	Amount
	The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 750mm interval & finally finishing the surface & matching the same with the existing surface. Item 1,3, 4 & 5				
	The rate should include the cost of all materials, modular switch complete with MS box & cover plate, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc				
1	L&F Point Wiring, Circuit wiring & Power Point wiring				
	L & F Points				
1	Primary Point Wiring for light points controlled thru modular switches complete with boxes & cover plate - The point wiring shall be carried with 3*1.5sq.mm FRLSH stranded Cu. Wires in 20mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The rates shall include cost of circuit wiring with 3*1.5sq.mm FRLSH Cu stranded wires in 20mm OD PVC Pipe from nearest TPN Db to controloing SDb. The job shall be complete & to the entire satisfaction of the Bank. Each Switch board should be provided with suitable capacity fuses/ fuse indicator	Point	35		
2	Secndray Light Point				
	Same as above but looped from PP with 3*1.5sq.mm FRLSH stranded Cu. Wires in 20mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall be complete & to the entire satisfaction of the Bank.	Point	11		
3	6 A switch socket points on Sdb: S/F of 6A switch points with an additional indicator and 6Amp. modular Type switch & socket. It shall have 3*1.5sq.mm FRLSH stranded Cu. Wire as per requirement. The job shall be complete & to the entire satisfaction of the Bank.	Point	11		

4	Point Wiring for wall fan points controlled thru modular switches complete with boxes & cover plate - The point wiring shall be carried with 3*1.5sq.mm FRLSH stranded Cu. Wires in 20mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall also included S/F of 6A switch socket near wall fan for regulating the same. The job shall include cost of circuit wiring with 3*1.5sq.mm FRLSH Cu stranded wires in 20mm OD PVC Pipe from nearest TPN Db to controloing SDb. The job shall be complete & to the entire satisfaction of the Bank. Each Switch board should be provided with suitable capacity fuses/ fuse indicator	Each	9		
5	Point Wiring for Ceiling fan points controlled thru modular switches complete with boxes & cover plate - The point wiring shall be carried with 3*1.5sq.mm FRLSH stranded Cu. Wires in 20mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall also include S/F of modular electronic regulator in SDb for regulating the same. The job shall include cost of circuit wiring with 3*1.5sq.mm FRLSH Cu stranded wires in 20mm OD PVC Pipe from nearest TPN Db to controloing SDb. The job shall be complete & to the entire satisfaction of the Bank. Each Switch board should be provided with suitable capacity fuses/ fuse indicator	Each	3		
6	Point Wiring for exhaust fan points controlled thru modular switches complete with boxes & cover plate - The point wiring shall be carried with 3*1.5sq.mm FRLSH stranded Cu. Wires in 20mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall also included S/F of 6A switch socket near wall fan for regulating the same. The job shall include cost of circuit wiring with 3*1.5sq.mm FRLSH Cu stranded wires in 20mm OD PVC Pipe from nearest TPN Db to controloing SDb. The job shall be complete & to the entire satisfaction of the Bank. Each Switch board should be provided with suitable capacity fuses/ fuse indicator	Each	3		
LOM	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				
	<u>Power Point Wiring</u>				
1	Primary Power Point: Raw power points on workstations / table / Printer etc using 3*4 Sq.mm FRLSH Cu. stranded wire laid in 20mm OD PVC pipe medium conduit pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each power point shall also consists of 1 nos of 16A , 2/3/5 pin sockets & 1 No., 16A Switch , wired together forming one point. The earth wire of green color only.	Point	9		

2	Secondary Power Point: Raw power points on workstations / table / Printer etc using 3*2.5 Sq.mm FRLSH Cu. stranded wire laid in 20mm OD PVC pipe medium conduit pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each power point shall also consists of 1 nos of 16A, 2/3/5 pin sockets & 1 No., 16A Switch, wired together forming one point. The earth wire of green color only. Secondary P to b einterlooped with Primary PP. Maximum length 6m.	Point	2		
	Total 2nos. - 1 for BM + 1 for (2 officers besdies cash)				
LOM	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				
2	<u>Air - Conditioning</u>				
1	AC Point: Providing AC points with circuit wiring with 3*4sq.mm FRLSH Cu stranded wires to be laid in 20mm PVC medium concealed in wall/ floor/ panelling/ partitions as per requirement. The work shall include S/F of MCB protected power unit for AC c/w 40A 2P MCB including proper connections. The job shall be complete & to the entire satisfaction of the Bank.	Point	4		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	MCB Protected Power unit c/w10kA MCB "C"- Havells/ L&T/ Siemens/ Schnider				
3	Wiring with 3*4.0sq.mm FRLSH stranded Cu. wires laid in 20mm OD PVC/ flexible pipe heavy duty laid on floor & concealed in wall/ floor as per requirement <u>to various voltage stabilizers</u> . The job includes making connections at both ends with proper size of lugs to the entire satisfaction of the Bank.	m	12		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	<u>UPS</u>				
1	<u>UPS supply regulating Changeover:</u> S/F of 63A 4P changeover near panel for regulating UPS supply including proper connections. The supply shall be tapped from TPN Changeover for branch outside panel.	Each	1		
	<u>When branch is closed this change over shall always remain in "ON" position. It will enable supply to UPS even when branch is closed in evening.</u>				
	Changeover Switch- C&S/ Havells/ L&T/ HPL				
3	Incoming supply to UPS room: S/laying of 4 core 6sq.mm XLPE insulated armoured Copper conductor cable from main Panel to 4way TPN Db in the UPS room to be laid in medium duty 20mm PVC conduit/ pipe & run on surface or concealed in wall/ floor/ flase ceiling including connections at both ends with lugs.	m	25		
	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				

4b	S/ F of 4way SPN Db metallic c/w 32A 4P MCB including all connections complete in all respects to the entire satisfaction of the Architect/ bank.	Each	1		
4c	S/ F of 2way SPN Db metallic c/w 32A 2P MCB including all connections complete in all respects to the entire satisfaction of the Architect/ bank.	Each	2		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
5	Supply & laying of incoming & outgoing wiring to & from UPS with 3*4 sq.mm FRLSH stranded Cu. Wires laid in 20/25 mm flexible PVC pipe medium duty to UPS incoming & from UPS outgoing.	m	10		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
6	UPS Output Db in UPS Room - S/F of 12way SPN Db c/w 40A 2P MCB incomer and 32A 2P branch + 2*16A 2P MCB's for FDAS & CCTV as outgoing feeders including proper connections thru lugs. The job shall be complete & to the entire satisfaction of the Bank.	Each	1		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
7	UPS Output Distribution Boards				
a	Branch				
	Location on RHS wall - S/ F of 12way SPN Db c/w 63A 2P MCB and 5nos. 6A 1P (1 cash, 1 officer beside c/c, 1 officer RHS rear, 2 routers) +2*16A 1P MCB for BM & 2officers besides cash complete in all respect and as required & to the satisfaction of the bank.	Set	1		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
8	Supply & laying of incoming wiring from UPS Db in UPS room to UPS output Db near cash cabin with 3*4 sq.mm FRLSH stranded Cu. Wires laid in 20/25 mm flexible PVC pipe medium duty complete in all respects	m	20		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
9	Supply & Installation of point wiring for UPS power plug points on workstations / table for computers using 3*1.5 Sq.mm copper conductor multi stranded FRLSH wire pulled through floor raceways/conduit and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 3 nos of 6A , 2/3 pin sockets & 1 No., 16A Switch wired together forming one point. The earth wire of green color only.	Each	9		

	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				
4	<u>DISTRIBUTION MAINS</u>				
1	S/F of 3 nos. 100Amp 415V Kit kats rewirable Porcelain fuse carrier & base with extension strips c/w 4 hole heavy duty neutral terminal including making of connection from electronic meter c/w wooden board etc.	Set	1		
	SFU/ Fuses- HPL/ L&T/ Siemens/ GE Power/ Schnider (MG)				
2	<u>Main Incoming Panel</u>				
	SITC of main distribution board panel fabricated of 18swg (powder coated) comprising of	Each	1		
	Indicator lamps 3 nos.				
	Voltmeter & ammeter (one each) c/w rotay switches and CT's for Ammeter				
	Busbar 1nos. - (each of RYB +N) Copper 100A each				
	Incomer - 100A 4P MCCB adjustable 25kA				
	<u>100A 4P Changeover outside Panel - Item 3 below</u>				
	<u>Outgoing</u>				
	<u>UPS</u>				
	To be tapped/ connected from incoming side of the c/o outside panel				
	<u>From Main Bus</u>				
	63A 4P MCB- 4nos. - 2no. HTPN Db (LHS & RHS) + 1 ATM + 1 spare				
	32A 2P MCB's - 3nos. for Strong room, signage and 1 spare				
	Earth bus bar 25x5mm GI strip - 2nos. At the bottom.				
LOM	Ammeter, Voltmeter- AE/ L&T/ Meco/ Rishab				
	Selector Switch, Push Button switch/ Emergency switch- Kay Cee/ L&T/ Siemens/ Schnider				
	Indication Lamps- AE/ L&T/ Siemens/ Schnider				
	CT's- L&T/ AE/ Kappa				
	AT's- L&T/ Siemens/ Schnider/ Legrand				
	MCCB- Legrand/ Schnider (MG)/ ABB/ Siemens/ L & T				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
3	<u>Changeover:</u> S/F of 100A 4P changeover near VTPN Db panel for regulating DG set supply including proper connections.	Each	1		

4	S/ laying of XLPE insulated armoured Aluminium Conductor cables including cost of lugs, cable glands etc. The cable should be laid on surface with proper clamps @750mm or laid & concealed in wall/ floor/ PVC Conduit/ false ceiling complete in all respect. The work also includes cutting chases for conduits in the wall/ floor (Without damaging the building) along with clamping the cable. All connection shall be done thru proper size of lugs				
	3.5c 25sq.mm for Pole & fuse Kit Kats	Metre	25		
LOM	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
	Cable Lugs- Dowells				
5	S/ laying of XLPE insulated armoured Copper Conductor cables including cost of lugs, cable glands etc. The cable should be laid on surface with proper clamps @750mm or laid & concealed in wall/ floor/ PVC Conduit/ false ceiling complete in all respect. The work also includes cutting chases for conduits in the wall/ floor (Without damaging the building) along with clamping the cable. All connection shall be done thru proper size of lugs				
	4c x 16sq.mm for HTPN Db at GF	Metre	35		
LOM	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
	Cable Lugs- Dowells				
6a	SITC of TPN Db complete in all respects as under - Location LHS rear area in Pantry	Each	1		
	LHS - 4way HTPN Db - Double door				
	Incomer - 63A 4P MCB				
	2no. 32A 1P MCB - LHS & 1rear				
	1no. 20A 1P MCB - Primary PP+ looped secondary PP - 1 for 2 for 2officers besides cash				
	4no. 16A 1P MCB - 1 cash, 1 officer beside Cash, 1 D/w & 1Pantry				
	4nos. 10A 1P MCB for L & F				
	Blanking Plates - 1no.				
	All connection shall be done thru proper size of crimped lugs				
6b	SITC of TPN Db complete in all respects as under - Location LHS rear area in Pantry	Each	1		
	RHS - 4way HTPN Db - Double door				
	Incomer - 63A 4P MCB				
	2no. 32A 1P MCB - BM & 1rear				
	1no. 20A 1P MCB - Primary PP+ looped secondary PP - 1 for BM				
	3no. 16A 1P MCB - 1 rear officer & 2 separate for router				
	5nos. 10A 1P MCB for L & F				
	Blanking Plates - 1no.				
	All connection shall be done thru proper size of crimped lugs				
LOM	Distribution Boards Single/ Double door in steel sheet housing - ABB/ Legrand/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand/ Havell				

7	Strong room controlling DP MCB - Circuit wiring with 3*2.5sq.mm FR LSH stranded Cu. wires laid in 20 mm PVC pipe OD medium duty laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job also includes supply & fixing of 32A 2P MCB in 2way metallic box including connections with lugs. The job shall be complete & to the entire satisfaction of the Bank.	Job	1		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				
8	Glow sign Board - Circuit wiring with 3* 2.5 sq.mm FRLSH stranded Cu. wires laid in 20 mm PVC pipe heavy duty laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall be complete & to the entire satisfaction of the Bank.	m	12		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
8	Timer - Supply of 40 A SP 230 V analog time switch panel(TIMER), in manufacturer sheet steel panel, fully prewired with all components like time switch, MCB, contactor, selector switch, indicating lamp.(1 for sign board)	Nos.	1		
	Timers- L&T/ Legrand/ Schnider/ Siemens/ GE				
5	<u>DG SET SUPPLY</u>				
1	S/laying of 3.5c 25sq.mm XLPE insulated armoured Aluminium Conductor cable c/w 1*6sq.mm stranded copper wire for earthing from proposed DG set to Changeover switch including its connections at both ends with lugs to be laid in 25mm dia rigid PVC /flexible conduit	m	12		
LOM	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
	Cable Lugs- Dowells				
	<u>IN SCOPE OF DG SET VENDOR</u>				
6	<u>EARTHING</u>				
1	<u>For Panel</u>				
	S/burying of Dual pipe technology earthing electrode having GI 65mm O/D pipe with 25 micron coating, 3metres long. The job also includes S/F of GI strip clamp with two holes (with SS/GI bolts & nuts) on the electrode & taking one lead of 4sq.mm Cu stranded wire (Cost of 4sq.mm wire extra as under) upto 4way earth link near main panel complete in all respects with guaranteed E/N voltage of less than 2 volts and resistance less than 1 ohms. The 4sq.mm Cu stranded wire shall be terminated on 4way earthlink. The connections for Panel earthing/ earth bus in the panel and for 2 kiosks shall be taken from this earthlink. The distance between two earthing pits to be 10ft or more.	Job	1		
2	<u>For UPS</u>				

	S/burying of Dual pipe technology earthing electrode having GI 65mm O/D pipe with 25 micron coating, 3metres long. The job also includes S/F of GI strip clamp with two holes (with SS/GI bolts & nuts) on the electrode & taking one lead of 4sq.mm Cu stranded wire (Cost of 4sq.mm wire extra as under) upto 4way earth link near UPS complete in all respects with guaranteed E/N voltage of less than 2 volts and resistance less than 1 ohms. The 4sq.mm Cu stranded wire shall be terminated on 4way earthlink. The connections for UPS earthing/ UPS Db's earthing shall be taken from this earthlink. The distance between two earthing pits to be 10ft or more.	Job	1		
2	Supply & Fixing of 4sq.mm FRLSH Cu. Stranded wire on surface or in recess for loop earthing as required earthing to Db's or main panel as required.	m	30		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
3	S/F of 4 way earth link	Each	2		
7	SUPPLY & FIXING LIGHT & FAN ITEMS				
1	S/F of Energy efficient recessed mounted LED luminaire - 30/32w LED recessed mounted 2'X2' luminaire suitable for grid ceiling with indirect lighting delivering soft and uniform light - Make as approved by Bank/ architect	Each	13		
	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
2	S/F of recessed LED downlighter - 15w LED recessed mounted high performance low-height LED downlighter c/w robust PDC housing complete in all respects- Make as approved by Bank/ architect	Each	13		
	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
3a	S/F of Surface & wall mounted LED batten - Ultra-slim poly carbonate decorative LED batten with inbuilt heat sink, anti glare polycarbonate diffuser & energy efficient electronic driver 20W 1800 lumens - Make as approved by Bank/ architect	Each	14		
4a	S/F of Angle holder Anchor make c/w 8w LED bulb complete in all respects - Make as approved by Bank/ architect	Each	3		
	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
5	S/F of wall mounted fan - 80/100watt metal body Fan - 450mm, 1300 to 1500RPM	Each	9		
	Fans- Crompton/ Havells/ Bajaj/ Usha				
6	S/F of energy saving/ efficient ceiling fan 1200mm sweep double ball bearing type Make as approved by Bank/ architect	Each	3		
	cost of electronic regulator to be quoted in CF point wiring as above.				
	Fans- Crompton/ Havells/ Bajaj/ Usha				
7	Supply & Fixing of metallic fresh air fan 230mm sweep - Make as approved by Bank/ architect	Each	3		

	Fans- Crompton/ Havells/ Bajaj/ Usha				
8	S/F of chime bell as approved by Architect	Each	3		
	Anhcor/ Havells				
8	<u>Telephone system</u>				
1	S/F modular telephone jack single with shutter outlet (RJ-11) with mounting box & front plate complete with chase cutting, mending good etc. as required including Supply & laying of 2 pair unarmoured 0.61mm dia. PVC insulated twisted pairs bunched together telephone cables through rigid 20mm dia PVC conduit as directed by the Bank/ Architect from telephone junction box to telephone socket outlet including interconnection as required complete in all respects.	Each	4		
	Telephone Wire -Delton/ Skyline/ Finolex/ Rallison/ Batra Henley				
2	10 Pair Tag box	Each	1		
	Telephone Tag Blocks- Krone/ Pouyet/ TVS				
3	MDS Box	Each	1		
	MDS box - Krone/ Pouyet/ TVS				
	Total Cost of Electrical works				
	DATA CABLING				
1	Supplying and laying D-link make CAT-6e Cable in PVC 20mm dia OD medium conduit complete with <u>CAT-6 information outlet with plate & surface Box</u> at work tables marked as DP	Point	9		
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Cable - Digi Link/ Clipser/ National/ Polycab/ Lapp/ Finolex				
	I/O- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
2	S/ F of 7ft Grey colour Patch chord	Each	9		
	Patch Chord- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
3	S/ F of 3ft Grey colour Patch chord	Each	9		
	Patch Chord- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
4	S/F of 24 Port Patch Panel complete in all respects	Each	1		
	Patch Panel- Brocade/ Cisco/ DigiLink/ 3 Com/ Nortel/ Foundary/ D- Link				
5	S/F of 24 Port switch complete in all respects	Each	1		
	Switch- Brocade/ Cisco/ DigiLink/ 3 Com/ Nortel/ Foundary/ D- Link				
6	Supply & Fixing of wall mounted rack 9U with glass perforated front door and removable rear locking door, Mounting Hardware pack, Fan assembly - Cable entry from rear complete in all respects	Each	1		
	Racks- Com Rack/ HCL/ Val Rack/ APW President				

7	Supply & fixing of 1U - PVC cable Manager with cover	Each	1		
	Cable Manager - Krone/ Pouyet/ TVS				
	<i>Total for Data/ LAN Cabling</i>				
A	TOTAL FOR ELECTRICAL & DATA CABLING				


ATM

S.No.	Particulars	Unit	Qty.	Rate	Amount
	The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 750mm interval & finally finishing the surface & matching the same with the existing surface. Item 1,3, 4 & 5				
	The rate should include the cost of all materials, modular switch complete with MS box & cover plate, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc				
1	L&F Point Wiring, Circuit wiring & Power Point wiring				
1	Point Wiring for light, fan & exhaust fan points controlled thru modular switches complete with boxes & cover plate - The point wiring shall be carried with 3*1.5sq.mm FRLSH stranded Cu. Wires in 20mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall include cost of circuit wiring with 3*1.5sq.mm FRLSH Cu stranded wires in 20mm OD PVC Pipe from nearest TPN Db to controlling SDb. The job shall be complete & to the entire satisfaction of the Bank. Each Switch board should be provided with suitable capacity fuses/ fuse indicator	Point	3		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				
2	6 A switch socket points on Sdb: S/F of 6A switch points with an additional indicator and 6Amp. modular Type switch & socket. It shall have 3 x 1.5sq.mm FRLSH stranded Cu. Wire as per requirement. The job shall be complete & to the entire satisfaction of the Bank.	Point	1		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				

3	Power Point: Raw power points on workstations / table / Printer etc using 3*2.5 Sq.mm FRLSH Cu. stranded wire laid in 20mm OD PVC pipe medium conduit pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each power point shall also consists of 1 nos of 16A , 2/3/5 pin sockets & 1 No., 16A Switch , wired together forming one point. The earth wire of green color only.	Point	1		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				
2	<u>Air - Conditioning</u>				
1	AC Point: Providing AC points with circuit wiring with 3*4sq.mm FRLSH Cu stranded wires to be laid in 20mm PVC medium concealed in wall/ floor/ panelling/ partitions as per requirement. The work shall include S/F of MCB protected power unit for AC c/w 25A 2P MCB including proper connections. The job shall be complete & to the entire satisfaction of the Bank.	Point	2		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	MCB Protected Power unit c/w10kA MCB "C"- Havells/ L&T/ Siemens/ Schnider				
3	Circuit wiring with 3*4.0sq.mm FRLSH stranded Cu. wires to be laid in 20mm OD PVC/ flexible pipe heavy duty laid on floor & concealed in wall/ floor as per requirement <u>to various voltage stabilizers</u> . The job includes making connections at both ends with proper size of lugs to the entire satisfaction of the Bank.	m	10		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	<u>C - UPS</u>				
1	Location in branch UPS room - S/ F of 2way SPN Db metallic c/w 25A 2P MCB for incoming supply to 2 UPS Db including all connections complete in all respects to the entire satisfaction of the Architect/ bank.	Each	2		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
2	Location in branch UPS room -for input/ Output Wiring for ATM UPS - S/ Laying of 3*2.5sq.mm FRLSH stranded Cu. wires to be laid in 20mm OD PVC medium duty pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall be complete & to the entire satisfaction of the Bank.	m	10		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				

3	UPS Db in ATM Room - S/F of 4way SPN Db metallic c/w 40A 2P MCB and 2nos. 16A 1P MCB's as outgoing feeders including proper connections thru lugs. The job shall be complete & to the entire satisfaction of the Bank.	Each	1		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
4	Input Wiring for UPS Db in ATM Room from UPS room with 3*4 sq.mm FRLSH stranded Cu. wires laid in 20mm OD PVC pipe medium duty conduit pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall be complete & to the entire satisfaction of the Bank.	m	6		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
5	Point wiring for UPS points on workstations / table for computers using 3*1.5 Sq.mm FRLSH Cu. stranded wire laid in 20mm OD PVC pipe medium conduit pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point shall consist of 3 nos of 6A , 2/3 pin sockets & 1 No., 16A Switch , wired together forming one point. The earth wire of green color only.	Nos.	2		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Modular Switch/ Sockets - ABB/ Legrand/ MK/ Anchor/ Elleys/ Roma				
4	<u>DISTRIBUTION MAINS</u>				
1	S/laying of 4 core 6sq.mm XLPE insulated armoured Copper conductor cable from main Panel to 4way HTPN Db be laid in medium duty 25mm PVC conduit/ pipe & run on surface or concealed in wall/ floor/ false ceiling including connections at both ends with lugs.	m	15		
	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
2	Supply & laying of 1*2.5Sq.mm FRLSH Cu Standed wire on surface or in recess for loop earthing along with sub main cable as required complete in all respects	m	15		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
3	SITC of 4way HTPN Db complete in all respects for AC, PP & LF as under - Location RHS wall	Each	1		
	Incomer - 63A 4P MCB				
	3no. 32A 1P MCB - for 2nos. AC's & signage board				
	<u>2nos. 25A 2P MCB for incoming supply to UPS</u>				
	1no. 16A 1P MCB - for single PP - 1 PP for machines				
	1nos. 10A 1P-MCB for L & F				
	Blanking Plates -3nos.				
	All connection shall be done thru proper size of lugs				

	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
4	Glow sign Board - Circuit wiring with 3*2.5sq.mm FRLSH stranded Cu. wires laid in 20 mm PVC pipe heavy duty laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall be complete & to the entire satisfaction of the Bank.	m	10		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
5	Supply of 40 A SP 230 V analog time switch panel(TIMER), in manufacturer sheet steel panel, fully prewired with all components like time switch, MCB, contactor, selector switch, indicating lamp.(1 for Ac & one for glow sign board)	Nos.	2		
	Timers- L&T/ Legrand/ Schnider/ Siemens/ GE				
5	<u>DG SET SUPPLY</u>				
	<u>Supply from Main LT Panel</u>				
6	<u>EARTHING</u>				
1	S/burying of Dual pipe technology (Pipe in Pipe) earthing electrode having GI 80mm O/D pipe with 25 micron coating, 3metres long. The job also includes S/F of GI strip clamp with two holes (with SS/GI bolts & nuts) on the electrode & taking one lead of 4sq.mm Cu Stranded wire upto Main panel complete in all respects with guaranteed E/N voltage of less than 2 volts and resistance less than 1 ohms. The 4sq.mm Cu stranded wire shall be terminated on a separate 6way earthlink. The connections for ATM Machine & UPS shall be taken from this earthlink.	Job	1		
2	Supply & Fixing of 4sq.mm Cu. Stranded wire on surface or in recess for loop earthing as required earthing to Db's or main panel as required.	m	15		
7	SUPPLY & FIXING LIGHT & FAN ITEMS				
LOM	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
	Fans- Crompton/ Havells/ Bajaj/ Usha				
1	S/F of Energy efficient recessed mounted LED luminaire - 30/32w LED recessed mounted 2'X2' luminaire suitable for grid ceiling with indirect lighting delivering soft and uniform light - Make as approved by Bank/ architect	Each	1		
	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
3a	S/F of Surface & wall mounted LED batten - Ultra-slim poly carbonate decorative LED batten with inbuilt heat sink, anti glare polycarbonate diffuser & energy efficient electronic driver 20W 1800 lumens - Make as approved by Bank/ architect	Each	1		

4	S/F of metal body wall mounted fan 450mm sweep - Sturdy & heavy duty metallic Blades, Nickel Chrome plated guard -Make as approved by Bank/ architect	Each	1		
	Fans- Crompton/ Havells/ Bajaj/ Usha				
	Total Cost of Electrical works				
	DATA CABLING				
	Supplying and laying D-link make CAT-6e Cable in PVC 20mm dia OD medium conduit complete with <u>CAT-6 information outlet with plate & surface Box</u> at individual Tables	Point	2		
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	Cable - Digi Link/ Clipser/ National/ Polycab/ Lapp/ Finolex				
	I/O- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
	S/ F of 7ft Grey colour Patch chord	Each	2		
	S/ F of 3ft Grey colour Patch chord	Each	2		
	<i>Total for Data/ LAN Cabling</i>				
B	TOTAL FOR ELECTRICAL & DATA CABLING				
	TOTAL BRANCH & ATM (A+B)				
Note: All rates are excluding G.S.T.					
<div style="text-align: right;">  <p>For GUNJAN & ASSOCIATES (Ar. GUNJAN KAPUR) PROPRIETOR</p> </div>					
Ar. Gunjan Kapur					
for M/s Gunjan and Associates					