

BILL OF QUANTITY FOR ELECTRICAL WORKS

FOR INDIAN BANK, AT SASPAN, BRANCH & 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				
	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 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	35		
2	Secondary 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	6		
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	10		
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 include 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 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	Each	8		
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 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	Each	4		

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 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	Each	2		
	Power Point Wiring				
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	7		
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 2 - 1 BM & 1 for 2 RHS officers on counters				
	Air - Conditioning				
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 32A 2P MCB including proper connections. The job shall be complete & to the entire satisfaction of the Bank.	Point	3		
	It includes 3*4sq.mm FRLS laid from AC panel to the various AC locations as shown / or as approved by Architect				
2	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 to <u>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		
	UPS				
	Presumed 2* 3KVA UPS (1P Input & 1P output) - 1W+ 1Sb				
1a	SITC of 4 x 6.0 Sq.mm Copper Conductor FRLS PVC insulated single core + 1 x 4.0 Sqmm Copper Conductor FRLS PVC insulated single core Earth Wire (Main Panel to UPS 4way SPN Db) in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	m	14		
2a	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. All Db's to be properly earthed. (In UPS room)	Each	1		
2b	Input supply to UPS - 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. All DB's to be properly earthed. For 2 UPS (2 input supply to UPS + 1 common output Db)	Each	3		
3	Supply & laying of incoming wiring with 3*4 sq.mm FRLSH stranded Cu. Wires laid in 20/25 mm flexible PVC pipe medium duty from 2way SPN Db to UPS incoming & outgoing to UPS output Db in UPS Room complete in all respects - 1 P + 1N + 1E	m	10		
4	Output Db from UPS - S/ F of 8way SPN Db metallic 40A 2P MCB as incomer & 3*32A 2P MCB outgoing including all connections complete in all respects to the entire satisfaction of the Architect/ bank. All DB's to be properly earthed. (One for branch, one for Router Db & one for ATM UPS Db)	Each	1		

5	UPS Output Db near router for CCTV, FDAS & router circuits - S/F of 8way SPN Db c/w 40A 2P RCCB 30mA as incomer and 2*16A 2P MCB's for FDAS & CCTV + 2*10A 1P MCB for router feeders including proper connections thru lugs. The job shall be complete & to the entire satisfaction of the Bank. All DB's to be properly earthed.	Each	1		
	Two separate ckts for router thru 2*10A 1P MCB's				
5a	UPS Output Db - Branch				
	S/F of 8way SPN Db for branch computer points with 32A 2P MCB as incomer and 2*10A SP MCB (1 BM & 1 for 2officers on RHS counter) + 2*6A SP for 1 cash cabin & 1 officers complete in all respect and as required & to the satisfaction of the bank. All DB's to be properly earthed.	Set	1		
	SPN Db should be earthed properly thru lugs.				
6	Supply & laying of incoming wiring with 3*4 sq.mm FRLSH stranded Cu. Wires laid in 20/25 mm flexible PVC pipe medium duty from 8way SPN Db in UPS room to UPS branch Db's & FDAS Db near router complete in all respects - 1 P + 1N + 1E	M	40		
	Qty includes for output Db, Router Db & branch UPS Incoming & o/g supply				
7	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	8		
4	<u>DISTRIBUTION MAINS</u>				
1	S/F of 100A 3P MCCB in Steel sheet enclosure for power utility supply from meter complete in all respects including proper connections with lugs etc.	Each	1		
2	<u>Main Incoming Panel</u>				
	SITC of main distribution board panel fabricated of 18swg (powder coated) comprising of Indicator lamps 3 nos.	Each	1		
	Voltmeter & ammeter (one each) c/w rotay switches and CT's for Ammeter				
	Incomer - 100A 4P MCCB adjustable 27kA with adjustable thermal and fixed magnetic release				
	<u>Busbar 2nos. - (each of RYB +N) copper 100A each One for UPS and ATM and 1 for out going feeders</u>				
	<u>100A 4P Changeover outside Panel - Item 3 below</u>				
	<u>Outgoing</u>				
	<u>From Main Bus</u>				
	2*63A 4P MCB - for UPS (1 spare)				
	2*63A DP for ATM power SPN Db (1 spare)				
	2*32A DP for Signage				
	1*100A 4P MCCB adjustable 27kA for Auxiliary Bus bar with adjustable thermal and fixed magnetic release				
	<u>From Auxiliary Bus</u>				
	2*63A 4P MCB- 1no. VTPN Db + 1spare				
	3*32A 2P MCB - Strong Room, Record room & 1 spare				
	Earth bus bar 25x5mm GI strip - 2nos. At the bottom.				
3	<u>Changeover:</u> S/F of 100A 4P changeover in Steel sheet enclosure near Main 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		

5a	SITC of 4 x 10.00 Copper Conductor FRLS PVC insulated single core + 1 x 4.0 Sqmm Copper Earth Conductor FRLS PVC insulated single core cable (Main Panel to AC /UPS/ Raw power DB) in PVC Pipe fixing on walls or chieseling the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	Metre	20		
6	SITC of VTPN Db complete in all respect as under -	Each	1		
6a	For LHS area - From LHS Front to LHS Toilet area - Location LHS wall near pillar				
	6way VTPN Db - Double door				
	Incomer - 63A 4P MCB				
	4*32A 1P MCB - for 1.5TR AC - 1 BM + 1 RHS+ 2 Rear				
	2*20A SP MCB for 2 RP- (Primary PP+ looped secondary) PP - 1 for BM & 1 for 2 officers on RHS counter				
	4*16A SP MCB for single RP - 1 for cash, 1 officer besides cash & 2 router				
	1*16A SP MCB for single PP - 1 for D/w				
	4*10A 1P MCB for L & F				
	3*6A 1P MCB for L & F				
	NIL *Blanking Plates				
	All connection shall be done thru proper size of crimped lugs				
	All Db's to be properly earthed.				
7	Record room controlling DP MCB - Circuit wiring with 3*1.5sq.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 metallic plug top & socket industrial box c/w 20A 2P MCB including connections with lugs. The job shall be complete & to the entire satisfaction of the Bank.	Job	1		
	To be taken from Panel - one record room				
8	Strong room controlling DP MCB - Circuit wiring with 3*1.5sq.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 metallic plug top & socket industrial box c/w 20A 2P MCB including connections with lugs. The job shall be complete & to the entire satisfaction of the Bank.	Job	1		
	To be taken from Panel				
9	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		
10	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		
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	15		
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 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	S/F 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		
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 - 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	12		
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		
3a	S/F of Surface & wall mounted LED batten - Ultra-slim poly carbonate decorative 4' long LED batten with inbuilt heat sink, anti glare polycarbonate diffuser & energy efficient electronic driver 20W 1800 lumens - Make as approved by Bank/ architect	Each	12		
5	S/F of 6000/6500 K,(≥480lumens) Sleek slim Surface mounted 8w LED downlight complete in all respects - Make as approved by Bank/ architect	Each	4		
4a	S/F of Angle holder Anchor make c/w 8w LED bulb complete in all respects - Make as approved by Bank/ architect	Each	2		
5	S/F of wall mounted fan 400mm sweep - Sturdy & heavy duty metallic body & blades, metallic guard - Atomberg/ Havells/ Crompton/ Bajaj or any make as approved by Bank/ architect	Each	8		
6	S/F of ceiling fan 1200mm sweep - Havells/ Crompton/ Bajaj/ Usha make or any equivalent make as approved by Bank/ architect cost of electronic regulator to be quoted in CF point wiring as above.	Each	4		
7	S/F of metallic exhaust fans 250mm sweep Havells/ Crompton/ Bajaj or any equivalent make as approved by Bank/ architect	Each	2		
8	S/ F of call bells as approved by Architect complete in all respects	Each	1		
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	3		

2	10 Pair Tag box	Each	1		
3	MDS Box	Each	1		
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 & suface Box</u> at work tables marked as DP	Point	8		
	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	8		
	Patch Chord- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
3	S/ F of 3ft Grey colour Patch chord	Each	8		
	Patch Chord- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
#REF!	Dismantling & refixing of existing Rack, Patch Panel & Switch from the existng branch to the new proposed branch.	Job	1		
	<i>Total for Data/ LAN Cabling</i>				
TOTAL FOR ELECTRICAL & DATA CABLING					
	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	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	2		
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	1		
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	1		

3	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	1		
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 32A 2P MCB including proper connections. The job shall be complete & to the entire satisfaction of the Bank.	Point	2		
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	6		
3	<u>UPS</u>				
	<u>UPS supply from Branch UPS</u>				
1	UPS Db in ATM Room - S/F of 4Way SPN Db metallic c/w 32A 2P MCB RCCB 100mA and 2*16A 1P MCB's as outgoing feeders including proper connections thru lugs. The job shall be complete & to the entire satisfaction of the Bank. All DB's to be properly earthed.	Each	1		
2	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. 1P+ 1N+ 1E	m	20		
3	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		
4	<u>DISTRIBUTION MAINS</u>				
1	SITC of 2 x 6.0 Sq.mm Copper Conductor FRLS PVC insulated single core + 1 x 4.0 Sqmm Copper Conductor FRLS PVC insulated single core Earth Wire (Main Panel to ATM Db) in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	m	15		
2	SITC of 8way SPN Db Single door complete in all respects for AC, PP & LF as under - Location RHS wall Incomer - 63A 2P MCB 2*32A 1P MCB - for 2nos.- 1 for AC & 1 for signage board 1*16A 1P MCB - for single PP - 1 PP for machines 1*10A 1P-MCB for L & F 2*Blanking Plates All connection shall be done thru proper size of lugs All DB's to be properly earthed.	Each	1		
3	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		

4	Supply of 40 A SP 230 V analog time switch (TIMER) in 2way SPN Db fully prewired with all components like time switch, MCB, contactor, selector switch, indicating lamp.(1 for Ac & one for glow sign board)	Nos.	2		
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		
3	S/F of 4 way earth link	Each	1		
7	<u>SUPPLY & FIXING LIGHT & FAN ITEMS</u>				
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		
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	1		
3b	As above but 2' long	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		
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		
	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>					
TOTAL FOR ELECTRICAL & DATA CABLING					
GRAND TOTAL (A+ B)					

Note: All rates are excluding G.S.T.

For GUNJAN & ASSOCIATES

 (Ar. GUNJAN KAPUR)
 PROPRIETOR

Ar. Gunjan Kapur
 for M/s Gunjan and Associates