

**Bill of Quantity for Electrical & AC Piping works for Baroda U.P. Bank**

**At Regional Office Khalilabad**

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				
	<i>L&amp;F Point Wiring, Circuit wiring &amp; Power Point wiring</i>				
	<i>L &amp; F Points</i>				
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 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	Point	92.00		
2	Secondray 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	99.00		
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	17.00		

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	30.00		
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 included S/F of <i>modular elctronic regulator in SDb</i> 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	2.00		
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	3.00		
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	28.00		

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	16.00		
	Total 16nos. - 6+5+5				
	LHS 6nos. - 2PP ckts - 1 Legeal+ 1 NPA + 1 Credit+ 1 PND+ 1 Vigilance+ 1 HRD				
	RHS 5nos. - 1no. department, 1no. Recovery, 1no. Credit, 1no, IT & 1no, HR				
	CR 5nos.- 2 for 4PP on CR table+ 1 for 2 PP LHS wall + 1 for 2PP on rear end wall + 1 for screen				
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>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. Each point consisting of 1 nos of 20/25A , 3/5 pin sockets & 1 No. Single module 32/25A MCB, 1 Nos 25A Motor starter switch wired together forming one point. The earth wire of green color only. The above includes supply & fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good damaaged surface including proper connections. The job shall be complete & to the entire satisfaction of the Bank.	Each	5.00		
	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	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 various voltage stabilizers. The job includes making connections at both ends with proper size of lugs to the entire satisfaction of the Bank.	m	18.00		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	For Cassette AC				
3	Input supply to OD units - S/ F of 2way SPN Db metallic c/w 40A 2P MCB including all connections complete in all respects to the entire satisfaction of the Architect/ bank. All DB's to be properly earthed.	Each	8.00		

4	S/ laying of XLPE insulated armoured Copper Conductor cable including cost of lugs, cable glands for Cassette OD units				
	4c x 4sq.mm	m	225.00		
	<u>UPS</u>				
	<u>(Assumed 2nos. 7.5KVA UPS - 1P Input &amp; 1P Output</u>				
1	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/ false ceiling including connections at both ends with lugs.	m	45.00		
	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
2	S/ F of 4way SPN Db metallic c/w 63A 4P MCB including all connections complete in all respects to the entire satisfaction of the Architect/ bank.	Each	1.00		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
3	S/ F of 2way SPN Db metallic c/w 63A 2P MCB including all connections complete in all respects to the entire satisfaction of the Architect/ bank.	Each	2.00		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL for incoming supply to 2 UPS				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
4	Supply & laying of incoming & outgoing wiring to & from UPS with 3*6sq.mm Copper unarmoured cable laid in 20/25 mm flexible PVC pipe for medium duty for UPS incoming & from UPS outgoing.	m	10.00		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
5	UPS Output Db in UPS Room - S/ F of 8way SPN Db complete with 80A 2P MCB as incomer and 5*40A 2P MCB as outgoing feeders including proper connections thru lugs. The job shall be complete & to the entire satisfaction of the Bank.	Each	1.00		
	Distribution Boards Double door in steel sheet housing - ABB/ MDS/ Lexic/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
6	UPS Output Distribution Boards				

a	For Router, CCTV & FDAS supply - Location RHS wall near router- S/ F of 12way SPN Db c/w 32A 2P MCB + 2*16A 1P for router+ 2*16A 2P MCB for CCTV and FDAS supply complete in all respect and as required & to the satisfaction of the bank.	Set	1.00		
	RO UPS distribution				
7b	RHS				
a	S/F for 12way SPN Db c/w 32A 2P MCB and 10*6A 1P MCB complete in all respect and as required & to the satisfaction of the bank.	Set	2.00		
7c	LHS				
a	CR UPS Db - Location on LHS wall rear side in CR - S/ F of 8way SPN Db c/w 32A 2P MCB and 2*6A 1P MCB + 2*10A 1P MCB (2 CP per ckt) for CR Computer points complete in all respect and as required & to the satisfaction of the bank.	Set	1.00		
b	For LHS - Location LHS wall SM 2 cabin- S/ F of 8way SPN Db c/w 32A 2P MCB and 2*16A 1P MCB for DRM & RM + 2*6A 1P MCB for SM1 & SM 2 complete in all respect and as required & to the satisfaction of the bank.	Set	1.00		
	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*2.5 sq.mm FRLSH stranded Cu. Wires laid in 20/25 mm flexible PVC pipe medium duty complete in all respects	m	110.00		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
	<u>All Db bodies should be earthed.</u>				
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	32.00		
	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 160A 4P MCCB in SS enclosure for regulating power utility input supply 25kA with adjustable over load & thermal relay including making of connection from electronic meter etc. complete in all respects	Set	1.00		
	MCCB - Hager/ Legrand/ L&T/ Siemens/ Havells/ Schnider (MG)				
2	<u>Main Incoming Panel</u>				
	SITC of main distribution board panel fabricated of 18swg (powder coated) comprising of	Each	1.00		
	Indicator lamps 3 nos.				
	Voltmeter & ammeter (one each) c/w rotay switches and CT's for Ammeter				
	Busbar 1nos. - (each of RYB +N) Copper 160A each				
	Incomer - 160A 4P MCCB adjustable 25kA				
	<u>160A 4P Changeover outside Panel - Item 3 below</u>				
	<u>Outgoing</u>				
	<u>To be tapped from input side of the incomer MCCB</u>				
	AC - 100A 4P MCCB for Cassette AC Panel in Pantry				
	UPS - 63A 4P MCCB				
	<u>From Main Bus</u>				
	63A 4P MCB- 5nos. - 4nos. For LHS & RHS TPN Db + 1 spare				
	32A 2P MCB's - 1nos. for signage and 1 spare				
	Earth bus bar 25x5mm GI strip - 2nos. At the bottom.				
LOM	Ammeter, Voltmeter- AE/ L&T/ Mecor/ 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	AC Panel - Location in Pantry	Each	1.00		
	SITC of AC panel				
	Indicator lamps 3 nos.				
	Busbar 1nos. - (each of RYB +N) Copper 100A each				
	Incomer - 100A 4P MCCB adjustable 25kA				

	AC - 10*40A 2P MCB for Cassette AC				
	Earth bus bar 25x5mm GI strip at the bottom.				
4	<u>Changeover:</u> S/F of 160A 4P changeover in SS enclosure near panel for regulating DG set supply including proper connections.	Each	1.00		
	Changeover Switch- C&S/ Havells/ L&T/ HPL				
5	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 50sq.mm for Pole & 160A 4P MCCB	Metre	25.00		
LOM	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
	Cable Lugs- Dowells				
6	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				
a	4c x 16sq.mm for VTPN Db's for LHS VTPN Db + AC Panel	Metre	65.00		
b	4c x 10sq.mm for RHS VTPN Db's	Metre	75.00		
LOM	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
	Cable Lugs- Dowells				
7	Supply, installtion, testing & commissioning of TPN Db complete in all respects for AC, PP & LF as under				
a	4way VTPN Db for Conference room double door - Location rear entrance near LHS wall	Each	1.00		
	Incomer - 63A 4P MCB				
	5no. 20A 1P MCB - Primary PP+ looped secondary PP - 1 for 2PP LHS wall, 2 for CR table + 1 for 2PP rear end enrance & 1 for screen				
	2no. 16A 1P MCB - 1 LHS PP, 2 CR Table PP				
	4nos. 10A 1P MCB for L & F				
	Blanking Plates - 1nos.				
	All connection shall be done thru proper size of lugs				
	Input connection thru 4c 10Sq.mm Cu condustor XLPE armoured cable				

b	8way VTPN Db for Balance LHS area (DRM, RM, SM1, SM2 & rear utility) - Location rear o/s Record room	Each	1.00		
	Incomer - 63A 4P MCB				
	4no. 32A 1P MCB - DRM, RM, SM1 & SM 2				
	2no. 20A 1P MCB - Primary PP+ looped secondary PP - 1 DRM & 1RM				
	4no. 16A 1P MCB - 1 toilet RM, 1 toilet DRM & 2 for SM1 & SM 2				
	5nos. 10A 1P MCB for L & F				
	5nos. 6A 1P MCB for L & F				
	Blanking Plates - 4nos.				
	All connection shall be done thru proper size of lugs				
	Input connection thru 4c 16Sq.mm Cu condustor XLPE armoured cable				
c	6way VTPN Db for RHS rear area (Legal to Credit+ Reception & pantry area - Location RHS near pillar in legal deptt.	Each	1.00		
	Incomer - 63A 4P MCB				
	1*32A 1P MCB - Reception AC				
	4*20A 1P MCB - Primary PP+ looped secondary PP - 1 Legal, 1NPA, 1 Credit & 1 Pantry				
	4*16A 1P MCB - 1 D/w, 1 Legal, 1 Credit+ 1 reception				
	3nos. 10A 1P MCB for L & F				
	2nos. 10A 1P MCB for L & F				
	Blanking Plates - 4os.				
	All connection shall be done thru proper size of lugs				
	Input connection thru 4c 10Sq.mm Cu condustor XLPE armoured cable				
d	4way VTPN Db for RHS rear area (PND to HRD) Location - Rear wall o/s UPS room	Each	1.00		
	Incomer - 63A 4P MCB				
	2no. 20A 1P MCB - Primary PP+ looped secondary PP - 1 PND+ 1 Vigilance +1 HRD				
	3no. 16A 1P MCB - 1 PND + 2 IT				
	3nos. 10A 1P MCB for L & F				
	Blanking Plates - 1no.				
	All connection shall be done thru proper size of lugs				
LOM	Distribution Boards Single/ Double door in steel sheet housing - ABB/ Legrand/ Siemens/ HPL				
	MCB- 10kA "C" Characteristics L&T/ Siemens/ Schnider/ Legrand				
	Input connection thru 4c 10Sq.mm Cu condustor XLPE armoured cable				
	<u>All Db bodies should be earthed.</u>				



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	12.00		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
	PVC Conduit- CAP/ BEC/ Sieko/ AKG				
9	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.	1.00		
	Timers- L&T/ Legrand/ Schnider/ Siemens/ GE				
5	<u>DG SET SUPPLY</u>				
1	S/laying of 3.5c 50sq.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	20.00		
LOM	Cables Armoured/ Unarmoured - Finolex/ Polycab/ Havells/ RR Kabel/ KEI				
	Cable Lugs- Dowells				
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 Panel earthing & earth bus in the panel should be taken from this earthlink. (1for power system &1 for UPS). The distance between two earthing pits to be 10ft or more.	Job	2.00		
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	30.00		
	PVC Insulated FRLSH Copper wire (ISI Marked)- Skyline/ Finolex/ Havells/ Polycab				
3	S/F of G I Strip earth clamp	Each	2.00		
7	<u>SUPPLY &amp; FIXING LIGHT &amp; 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/	Each	53.00		

	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	63.00		
	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
3	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	52.00		
3b	Same as above but 1' long 10w LED Tube	Each	3.00		
	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
4	S/F of 6000/6500 K,( ≥480lumens) Sleek slim Surface mounted 7w/8w LED downlight complete in all respects - Make as approved by Bank/ architect	Each	11.00		
	Light fittings - Philips/ Wipro/ Osram/ Havells/ Crompton Greaves				
5	S/F of wall mounted fan 450mm sweep - Sturdy & heavy duty 3 Blades, 120 spokes Nickel Chrome plated guard	Each	30.00		
	Fans- Crompton/ Havells/ Bajaj/ Usha				
6	S/F of 5 star energy saving/ efficient BLDC ceiling fan 1200mm sweep Make as approved by Bank/ architect	Each	2.00		
	Fans- Havells Ambrose/ Crompton/ Kuhl/ Bajaj/ Usha				
7	S/F of 5star energy efficient BLDC metallic exhaust fans 250mm sweep Atomberg/ Havells/ Crompton/ Bajaj or any equivalent make as approved by Bank/ architect	Each	3.00		
8	Supply & Fixing of chime bells as approved by Architect	Each	9.00		
	Anchor/ 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	13.00		
	Telephone Wire -Delton/ Skyline/ Finolex/ Rallison/ Batra Henley				

2	10 Pair Tag box	Each	2.00		
	Telephone Tag Blocks- Krone/ Pouyet/ TVS				
3	MDS Box	Each	1.00		
	MDS box - Krone/ Pouyet/ TVS				
	<b>Total Cost of Electrical works</b>				
	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 &amp; surface Box</u> at work tables marked as DP	Point	32.00		
	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	32.00		
	Patch Chord- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
3	S/ F of 3ft Grey colour Patch chord	Each	32.00		
	Patch Chord- DigiLink/ Tyco (AMP)/ Schnider/ D- Link				
4	S/F of 24 Port Patch Panel complete in all respects	Each	2.00		
	Patch Panel- Brocade/ Cisco/ DigiLink/ 3 Com/ Nortel/ Foundary/ D- Link				
5	S/F of 24 Port switch complete in all respects	Each	2.00		
	Switch- Brocade/ Cisco/ DigiLink/ 3 Com/ Nortel/ Foundary/ D- Link				
6	Supply & Fixing of wall mounted rack 8U with glass perforated front door and removable rear locking door, Mounting Hardware pack, Fan assembly - Cable entry from rear complete in all respects	Each	1.00		
	Racks- Com Rack/ HCL/ Val Rack/ APW President				
7	Supply & fixing of 1U - PVC cable Manager with cover	Each	2.00		
	Cable Manager - Krone/ Pouyet/ TVS				
	<i>Total for Data/ LAN Cabling</i>				
<b>A</b>	<b>TOTAL FOR ELECTRICAL &amp; DATA CABLING</b>				
<b>Air-Conditioning Piping Works</b>					

**Note:-**

1. Each vendor to specify the Make of A.C. they propose to supply.
2. Common drain pipes of Cassette / Split A.C.'s be terminated in any toilet Nahni traps OR else be terminated from external wall up to ground. AC's with COPPER Condenser & Evaporator coils only to be supplied.
3. Pl. enclose Technical Brocher of quoted A.C.'s.
4. As built layout drawing of Refrigerant & Drain Piping has to be attached with Final Bill.

Blue Star, Daikin, Carries. AC's with COPPER Condenser & Evaporator coils should only be supplied.

Only one of these Makes to be quoted.

Pl. enclose Tech. Brocher of the quoted Cassette/ Split A.C.

**ALL NEW A C'S TO BE OF INVERTER TYPE**

All a.c's to be inverter type.					
S.No.	Particulars	Unit	Qty.	Rate	Amount
1	Drain Water Piping Constructed out of PVC Hard Pipes, fitting, accessories, bends, elbows, tees, hanger, support, anchors, ISI approved Finolex/Prince Make (32mm) CORE CUTTING AND REPLASTERING COMPLETE IN ALL RESPECT	RM	115.00		
2	Rate for Extra Piping (Rate above 10Feet pipe which will be free with each unit) Ref.Piping(Only single distance will be measured between Indoor & Outdoor Units)				
a	Copper Piping Refrigerant along with insulator Piping for Hi Wall 2.0/1.5 ton, 1/2 and 1/4 Soft Copper Refrigerant piping with complete fitting, elbows bends supporting arrangements Nissan, Merchant, MET tube, Totaline tube, pressure tested tube and S.I.T.C. of 12.5 Sq.mm. & 6.25 Sq.mm. dia. Copper refrigerant pipe with foam Insulation between Indoor & Out door units with breaking of wall for making hole wherever required For Split Air- Conditioners. And S.I.T.C. of 19 mm dia & 16 mm dia Copper Refrigerant Pipes with Foam insulation between Indoor & Out door units.with breaking of wall wherever required for 2-3 Tr Cassette/ Inverter Air conditioners.	Rm	275.00		
b	S.I.T.C. of 4 core Copper conductor flexible cable between Indoor & Outdoor Unit through holes made as above	Rm	288.00		
B	<b>Total AC Piping Works</b>				
	<b>Total (A+B)</b>				

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

For GUNJAN & ASSOCIATES  
  
 (Ar. GUNJAN KAPUR)  
 PROPRIETOR

**Ar. Gunjan Kapur**

**For M/s Gunjan & Associates**