

BOQ FOR ELECTRICAL WORK FOR CANARA BANK NASIK, PANCHAVATI BRANCH

All FRLS wires and Double Door DB's to be used

Type of wiring	Concealed
Casing capping (as per approval)	Modi make/ Precision (ISI grade)
PVC pipe and accessories	Precision / Polycab / Swastik (ISI make)
Wires	Polycab / Finolex / R R kabel make with flexible copper conductor, FRLS grade insulation
Computer Data Cable	D-Link / Molex / Awaya make
Armoured cable	Polycab / Finolex / R R kabel make (ISI grade)
MCB / MCB DB	L & T, Legrand / Siemens (ISI)
ELMCB	L & T, Legrand / Siemens (ISI)
Ft. tubes & fixtures	Philips / Wipro / Crompton / Havells / Bajaj
Ceiling fans	Crompton Greaves / Havells / Usha
screws	Nettlefold
Earthing material	Strictly Bare Copper and with charcoal
Switch fuse unit	L & T make (ISI)
Switches/sockets & accessories	Legrand / Anchor Roma Modular type
switchboards	Concealed modular type
Copper strip type busbar	Havells / Standard make
ONLINE UPS	Fuji / Vertiv
SMF Batteries	Exide / Amaron
Offline UPS / Inverter	Microtek / Havells
Tubular Batteries	Exide / Amaron

SR	SUMMARY	AMOUNT
A	TOTAL OF MAIN PANEL / DB's / MCCBs :-	-
B	TOTAL OF CABLES & TERMINATIONS	-
C	TOTAL OF POINT WIRING	-
D	TOTAL OF FIXTURES	-
E	TOTAL OF EARTHING SYSTEM	-
F	TOTAL OF TELEPHONE SYSTEM	-
G	TOTAL OF DATA CABLING SYSTEM	-
TOTAL FOR ELECTRICAL WORKS		-

ESTIMATE FOR ELECTRICAL WORK FOR CANARA BANK: Panchavati BRANCH

SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
A	MAIN PANEL / DISTRIBUTION BOARDS / MCCBs				
1	Meter room Mains MCB				
	Supplying & Installing 63A, FP MCB with Aluminium Busbar for cable termination in Sheet Steel Enclosure, complete with Gland Box, colour sleeves, holes etc.				
a	63A, 10kA, FP MCB	1	Nos		-
b	Sheet steel Enclosure Box for FP MCB	1	Nos		-
1.1	Supply and installation of 8 way, TPN type MAIN DISTRIBUTION BOARD (MDB) Double door type with MCB Incomer, flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, gasketed and hinged double door with all internals such as DIN rails, neutral etc.	1	Nos		-
a	63A, 4P, MCB - 10kA incomer	1	Nos		-
b	40A, 4P, MCB -10kA outgoing	1	Nos		-
c	25A, 2P, MCB -10kA outgoing	1	Nos		-
d	20A, 2P, MCB -10kA outgoing	2	Nos		-
1.2.1	Supply and installation of 4 way, TPN Distribution Board, Double Door Type AC DISTRIBUTION BOARD (ACDB) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, gasketed and hinged double door with all internals such as DIN rails, neutral etc.	1	Nos		-

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
a	32A, 30mA, 4P, ELCB + MCB (RCBO) incomer	1	Nos		-
b	25A, SP, MCB 10kA outgoing	9	Nos		-
1.2.2	Suply and installation of 4 way, TPN Distribution Board, Double Door Type LIGHTING DISTRIBUTION BOARD (LDB) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, gasketed and hinged double door with all internals such as DIN rails, neutral etc	1	Nos		-
a	20A, 30mA, 4P, ELCB + MCB (RCBO) incomer	1	Nos		-
b	16A, SP, MCB 10kA outgoing	12	Nos		-
1.3	S & I of 4 Way SPN, DB (Double Door) similar to above but for distribution of input power to UPSs as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (UPS-INPUT DB)	1	Nos		-
a	25A, DP, MCB, 10kA	1	Nos		-
1.3	S & I of 12 Way SPN, DB (Double Door) similar to above but for distribution of input power to UPSs as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (UPS-OUTPUT DB)	1	Nos		-
a	25A, 30mA, DP, ELCB + MCB (RCBO) incomer	1	Nos		-
b	16A, SP, MCB, 10kA outgoing	7	Nos		-
1.3	S & I of 4 Way SPN, DB (Double Door) similar to above but for distribution of input power to UPSs as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (INVERTER-INPUT DB)	1	Nos		-
a	20A, DP, MCB, 10kA	1	Nos		-
1.4	S & I of 12 Way SPN, DB (double door) similar to above but for distribution to all computer power points on workstations, having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (INVERTER-OUTPUT DB) Item including necessary blank plates.	1	Nos		-
a	20A, 30mA, DP, ELCB + MCB (RCBO) incomer	1	Nos		-
b	16A, SP, MCB, 10kA outgoing	7	Nos		-
1.5	S & I of 4 Way SPN, DB (Double Door) similar to above but for distribution of input power to UPSs as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (ATM UPS-INPUT DB)	1	Nos		-
a	20A, DP, MCB, 10kA	1	Nos		-
1.6	SITC DP / FP MCB with Weather proof Metal Enclosure, for Cassette AC Units				
a	Weather Proof Enclosure Box for DP MCB	2	Nos		-
b	25A, DP, MCB, 10kA	2	Nos		-
1.7	SITC DP / FP MCB with Weather proof Metal Enclosure, for ATM Machine (to be installed within bank not at ATM)				
a	Weather Proof Enclosure Box for DP MCB (For ATM Machine)	1	Nos		-
b	16A, DP, MCB, 10kA (For ATM Machine)	1	Nos		-
1.8	S & I of 20A, metal clad 3 pin socket with plug top along with 1no. 25A, SP, MCB -10kA, all housed in sheet metal powder coated box for giving supply to AIR CONDITIONER machines & vaults with complete wiring	4	Nos		-
1.9	S & I of 4 Way SPN, DB (Double Door) as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (near Main gate/entry)	1	Nos		-
a	40A, 4P, MCB - 10kA incomer	1	Nos		-
A	TOTAL OF MAIN PANEL / DB's / MCCBs				-

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
B	CABLES & TERMINATIONS				
	Supply and Laying of following LT cables confirming to IS 1554 (part 1) with necessary M.S. clamps. All such cables shall be provided with temporary labeling at every 20 mtr. & then finally with metal identification tags showing the size & the location from/to the specific panel/DB; at both the ends. The rates are inclusive of terminations.				
1	Aluminium Armoured Cables including terminations.				
a	4 C x 10 Sq.mm Aluminium AYFY Armoured Cables, from Pole to MSEB Meter to Main DB		Rmt		-
b	4 C x 16 Sq.mm Aluminium AYFY Armoured Cables, from Pole to MSEB Meter to Main DB	40	Rmt		-
c	3 1/2 C x 35 Sq.mm Aluminium AYFY Armoured Cables , from MSEB Meter Mains to Mains Power DB	30	Rmt		-
2	Copper Flexible Cables including terminations.				
a	2C x 4 Sq.mm Copper Flexible Cables , from UPS Output to UPS DB Incoming MCB		Rmt		-
b	4C x 6 Sq.mm Copper Flexible Cables , from Mains DB to Raw Power & AC DB Incoming MCB		Rmt		-
c	4C x 4 Sq.mm Copper Flexible Cables , from Main DB to UPS Input MCB & Main DB to Lighting DB Incoming MCB and up to the main entrance door		Rmt		-
	4C x 2.5 Sq.mm Copper Flexible Cables , from Main DB to UPS Input MCB & Main DB to Lighting DB		Rmt		-
3	Terminations				
	Preparing terminations of all the above mentioned armored cables using Siemens type double compression, chrome plated brass cable glands & crimp type tin copper lugs, Bimetallic lugs are to be provided wherever two different type conductors are present, Insulation tape etc. as required complete with earthing of glands.				
a	4 C x 10/16/35 Sq.mm Aluminium AYFY Flexible Cables	6	Nos.		-
b	2 C x 16/10/6/4/2.5 Sq.mm Copper Flexible Cables		Nos.		-
c	4 C x 16/10/6/4/2.5 Sq.mm Copper Flexible Cables	10	Nos.		-
4	Flexible Wires				
	Supplying & laying following size of 1.1 KV grade PVC insulated flexible copper cables through the Metallic Flexible Pipe neatly clamped where ever required using Spacer plates, GI saddles, including fixing with PVC / Brass glands and termination of cables using suitable crimp type tin copper lugs at both ends.				
a	4C x 10 sq.mm. Cu flexible cables, for Single Point Control Switch		Rmt		-
b	3R x 6 sq.mm. Cu flexible wire, for MDB to UPS & Inverter DBs Connection	90	Rmt		-
c	3C x 2.5 sq.mm. Cu flexible wire, for Signage	35	Rmt		-
d	3C X 2.5 sq.mm. Cu flexible wire, for Inverter	150	Rmt		-
d	Supplying and erecting programmable digital timer microcontroller based with real time clock to operate on derived switching "ON" and switching "OFF" glow sign board light as per daily sunset and sunrise respectively automatically having 4 digit LED continuous time display erected in M.S. box.	2	Nos.		-
B	TOTAL OF CABLES & TERMINATIONS				-

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
C	POINT WIRING				
1	POWER POINTS SITC of following concealed Power Point Wiring using 1100V grade 3C x 2.5 sq.mm. PVC insulated, PVC Sheathed White Colored flexible copper FRLS wire, laid through 20mm / 25mm size MMS Grade, PVC conduits. All cabling / conduiting below false ceiling shall be concealed. Each circuit feeding not more than 3 Tables / Work Stations). The rate shall include cabling including conduit cost from DB to mentioned Power Points. (No seperate measurements for circuit wiring & PVC Conduits)				
a	Primary UPS points Supplying & Installing Primary UPS or Stabilized Power points on workstations / tables for computers using 3C x 2.5 Sq.mm PVC sheathed white color flexible copper FRLS wire pulled through 25mm size MMS Grade PVC conduites, laid on surface above false ceiling and taken upto table top using 25/20 mm size MMS Grade PVC rigid or flexible conduits run within wooden or metal partitions. Each point consisting of 2 Nos of 6A, 5 Pin Modular sockets and 1 No. of 6/16A, 6 pin socket controlled by 1 No 20A Modular switch, wired together forming one point. Earth wire to be of Green colour only. Switch should be above table top & sockets should be below table top Only 3 tables served by one circuit from UPS DB. The Rate should be including the cost of Conduits, Cables, Switch boards, internal looping wires, necessary Gang Box, PVC box, Modular Plates of other color, Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc. All Switch Boards should be Properly numbered for identifications. First/ Main point will be measured as primary point and other looping ponts will be measured as secondary points	10	Nos.		-
b	Secondary UPS points Supplying & Installing Secondary UPS or Stabilized Power points on workstations / table for computers using 3C x 2.5 Sq.mm PVC sheathed white color flexible FRLS copper wire pulled through 25mm size MMS Grade PVC conduites, laid on surface above false ceiling and taken upto table top using 25/20 mm size MMS Grade PVC rigid or flexible conduits run within wooden or metal partitions. Each point consisting of 2 Nos of 10A, 5 Pin Modular sockets and 1 No. of 6/16A, 6 pin socket controlled by 1 No 20A Modular switch, wired together forming one point. Earth wire to be of Green colour only. Switch should be above table top & sockets should be below table top for 2 table served by the same circuit from adjascent Primary point. The Rate should be including cost of Cable, Switch board internal looping wires, necessary Gang Box, PVC box, Modular Plate of other color , Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc. All Switch Boards should be Properly numbered for identifications.	5	Nos.		-
c	Primary 10/20 A power points, for Printers / Pantry / Hot Plate / Water cooler / inverter etc Supplying & Installing Primary 10/20 A Power Socket points using 2 X 2.5 Sq.mm. + 1 X 2.5 Sq.mm. PVC insulated multistanded FRLS Grade flexible copper wires (with proper color code) pulled through haevy gauge PVC conduits.	3	Nos.		-

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
	Each point consisting of 1 Nos of 10/20 A Modular sockets controlled by 1 Nos of 20A Modular switch, wired together forming a point. Earth wire to be of Green colour only. Only 2 Sockets served by one circuit taken from Raw Power & ACDB				
d	Secondary 5/15 A power points, for Printers / Pantry / Hot Plate / Water cooler Supplying & Installing Secondary 10/20 A Power Socket points using 2 X 2.5 Sq.mm + 1 X 2.5 Sq.mm PVC insulated multistanded FRLS Grade flexible copper wires (with proper color code) pulled through haevy gauge PVC conduits. Each point consisting of 1 Nos of 6/16 A Modular sockets controlled by 1 Nos of 20A Modular switch, wired together forming a point. Switch should be above table top & sockets should be below table top The circuit should be taken from another Primary 15 A Power Socket Point only, whose circuit taken from Raw Power & ACDB	3	Nos.		-
2	LIGHT POINT WIRING SITC of following concealed point wiring using 1100V grade 3C x 1.5 sq.mm. copper conductor PVC insulated FRLS wires (with proper R,Y,B colour code) pulled through 25mm / 20mm Size, MMS Grade PVC conduits. All wiring below false ceiling shall be concealed. The wires from ceiling junction to light points shall be drawn in flexible PVC conduit with adaptor & cover for junction box & crimp type lugs at both ends. Each circuit feeding not more than average 12 points (800 watts). The rate shall include circuit wiring (2C x 2.5 sq.mm. + 1C x 1.0 sq.mm.) from Lighting DB to switchboard and to the fixtures. (No seperate measurements for circuit wiring & PVC Conduits)				
a	Primary Light points SITC 5A Primary light points including MS concealed box, grid plate, 6A switch & circuit wiring.	41	Nos.		-
b	Secondary Light points SITC 5 Amp Secondary light points looped from primary light point. All MCB controlled light points will be considered as secondary light points.	10	Nos.		-
c	Primary 5/15 Amp socket points SITC Primary 5 /15 Amp Socket points using circuit wiring (with proper color code) pulled through medium gauge PVC conduits. Each point consisting of 1 Nos of 5 / 15 Amp sockets controlled by 1 Nos of 6A switch, wired together forming a point with Green colour Earth wire.	4	Nos.		-
d	Secondary / Separate 5/15 Amp socket points (other than on Board plug points) SITC Separate Secondary 5/15 Amp Socket points using circuit wiring (with proper color code) pulled through medium gauge PVC conduits. These points should be looped from the nearest Lighting Switch Board or from Primary 5A Socket Points. Each point consisting of 1 Nos of 5 /15 Amp sockets controlled by 1 Nos of 6A switch, wired together forming a point with Green colour Earth wire.	4	Nos.		-
e	Secondary 5 A socket points (on Board plug points) SITC Secondary 5 /15 Amp Socket points using circuit wiring (with proper color code) pulled through haevy gauge PVC conduits. These points are installed on the Lighting Switch Board. Each point consisting of 1 Nos of 5/15 Amp sockets controlled by 1 Nos of 6A switch, wired together forming a point. Earth wire to be of Green colour only.	17	Nos.		-

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
f	<p>Exhaust fan/Wall Fan points SITC of concealed point wiring for Exhaust fan and Wall fan using 1100V grade 3C x 1.5 sq.mm. copper conductor PVC insulated FRLS wires (with proper R,Y,B colour code) pulled through 25mm / 20mm Size, MMS Grade PVC conduits. All wiring below false ceiling shall be concealed. The wires from ceiling junction to fan points shall be drawn in flexible PVC conduit with adaptor & cover for junction box & crimp type lugs at both ends. The rate shall include circuit wiring (2C x 2.5 sq.mm. + 1C x 1.0 sq.mm.) from Lighting DB to switchboard and to the Exhaust fan and Wall fan. (No seperate measurements for circuit wiring & PVC Conduits)</p> <p>Each Exhaust Fan and wall fan will be operated on seperate switch, Rate should be including the cost of 5 A switch, 4 way closed 5A connector & Mounting Plates</p>	10	Nos.		-
g	<p>Ceiling fan points SITC Ceiling Fan point operated on seperate switch shall be Controlled by 2 Module, Step type Fan regulator, Rate should be including the cost of Fan hook, Suspending suitable fan rod, Connecting cord and Step type Fan Regulator</p>	8	Nos.		-
h	<p>Bell points SITC Bell point consisting of 5A Modular Bell switch & Suitable Bell, (Bell switch to be installed in Manager Cabin and in Strong room. The Sound of both the bells should be different)</p>	2	Nos.		-
C	TOTAL OF POINT WIRING				-
D	FIXTURES				
	SITC of following concealed / surface mounted fixtures of makes as specified with all fixture accessories like suitable tubes/ bulbs/ ballast & internal wiring etc. The contractor has to assemble & install the said fixtures at position with necessary hardware required for installation like S-hook, chain link etc. as per requirement.				
1	<p>LED tube lights 4' SITC 1200 mm Long Surface/Wall/Hanging Mounted extruded Aluminium channels, with 20 w LED Tube light fixtures complete. Rate should be including the cost of Fixture, Suspending suitable rods, other accessories & hardware etc. Model : BN021 LED25S 6500 PSU GR S1, Make : Crompton Model : Linea LDLL20-CDL, LDLL20-WW Make : Wipro, Model : Garnet D532065, D552065 Make : Havells Model : E-Lite LED Pride Pus LHEXBLP7PN1W020</p>	11	Nos.		-
2	<p>LED tube lights 2' SITC 600 mm Long Surface/Wall Mounted extruded Aluminium channels, with 10 w LED Tube light fixtures complete. Rate should be including the cost of Fixture, Suspending suitable rods, other accessories & hardware etc.</p>	4	Nos.		-
3	<p>15W Down lighter with LED SITC 15W White Powder Coated Housing LED Round / Square Down Lighter with High Efficiency LEDs & Ballasts Make : Philips, Model : DN193B LED12S-6500 PSU WH S1 Make : Crompton, Model : Star Dura LDRSD-18W-CDL/ NW/ WW, Make : Wipro, Model : Garnet Wave D541565, Infinity Wave DG11565, DG12065 Make : Havells, Model : Fazer Neo LHEBMCP7IW1W015, LHEBMCP7IW1W020</p>	15	Nos.		-

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
4	600 x 600 mm square LED panel fittings SITC 36/40W LED Panel of 600mm X 600mm size, Square, Powder coated Recess mounting LED Light Fitting Make: Philips, Model: RC380B G2 LED28S / RC140B G2 LED31S-6500 PSE OD WH Make: Crompton, Model : LCTLR-36-CDL 36 w, LCPL-36-TL(2X2) Make: Wipro, Model : Gartnet D424065, D414065 CRCO10R038HP57 Make : Havells, Model : Venus Neo PLR36WLED865PO, Plano PLR42WLED865S	21	Nos.		-
5	Fans Supplying & Installing following mentioned Aluminum, medium duty, powder coated with glossy color Ceiling Fans / Wall Fans / Exhaust Fans with necessary clamps hook, bracket, hardware etc				
a	SITC 1200 mm sweep Ceiling fans Complete with Mounting rod, Clamps, Locking pin etc. (Color -White / Ivory / Brown)	8	Nos.		-
b	SITC 250mm sweep Exhaust fan of metal body & blade with louvers on the outside	3	Nos.		-
c	SITC 400mm sweep Wall fan of 1350 RPM. Oscillating type, metal blades chrome plated guard with speed regulator and moisture proof treatment to winding and with 'E' class insulation.	7	Nos.		-
d	Supplying & Fixing 15 A 3 Pin top	3	No.		-
e	Supplying & Fixing Ding dong bell	2	No.		-
D	TOTAL OF FIXTURES				-
E	EARTHING SYSTEM				
1	Plate Earthing S & I of Earthing Pit / Earth Electrode Station into the true ground level by using GI / Copper Plate type earthing with necessary excavation in soft soil, including Pouring Charcoal & Salt (Approximately) 50kg each per Pit with Predrilled 50mm dia B class GI Pipe-2.5 Mtr In length, GI Funnel with wiremesh, 35 x 5mm GI/Cu Earthing Strip, Complete job with necessary construction of appropriate sized Earthing PIT masonry Chamber with providing CI hinged chamber cover, Nutbolts, Earthing Testing Link, Hardware, Numbering of Chamber by using water proof paint. For more details refer IS 3043-1987 Brazing for Cu & Welding for GI Plate to pipe & Strip shall be done with coating by anti-corrosive paint				
a	GI Plate earthing GI earthing pit made up of 600 x 600 x 6 mm thick, Hot dipped galvanized electrode including 25 x 5 mm the. GI strip.		Nos.		-
b	Cu Plate earthing Copper earthing pit made up of 600 x 600 x 3 mm thick, copper electrode including 25 x 5 mm Copper strip.	4	Nos.		-
2	Earthing Wires SITC of insulated copper earthing wire laid through 20 mm PVC conduits from separately made earth pit to the equipment in following sizes				
a	12 SWG cu bare wire for AC's & DBs		Rmt		-
b	25mm x 5 mm thick GI strip		Rmt		-
c	25mm x 3 mm thick Copper Busbar	5	Rmt		-
d	Single core, 6 sqmm FRLS PVC insulated multi threaded, flexible copper wire laid through 20 mm size, MMS Grade PVC Conduites	160	Rmt		-

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
3	Main Earth Bus Supplying & Installing of Main bus for isolated earth comprising of 200mm x 40mm x 6mm thick copper bar fixed on insulated support and having 20 nos of holes and nut bolts studs for clamping the earth leads,all contained in MS/PVCbox of size 300mm x 200mm x 50mm deep and having transparent acrylic inspection cover as approved by Bank / Architect.	4	Nos.		-
E	TOTAL OF EARTHING SYSTEM				-
F	TELEPHONE / VOICE CABLING AND OUTLETS				
1	Telephone points Providing and laying 2 Pair Grey Color 0.5mm Tinned Cu , PVC insulated cable for Telephone / Voice, laid through 20 / 25 mm size, MMS Grade PVC Conduites and Supplying & terminating with RJ-11 Telephone Jack / Outlet with face plates in suitable modular PVC / MS box from EPABX / Krone Tag Box to the work stations and terminate the other on a 10 pair Krone module installed in a Krone Tag box, complete with numbering of each cable with Ferule and Telephone Connection Chart (No seperate measurements for PVC Conduits)	1	Nos.		-
2	Telephone cables Providing, laying and connecting PVC insulated copper telephone cable, laid through laid through 20 / 25 mm size, MMS Grade PVC conduites of following sizes including termination. (No seperate measurements for PVC Conduits)				
a	10-pair x 0.5 mm size Telephone cable, for MTNL / BSNL mains		Rmt		-
b	20-pair x 0.5 mm size Telephone cable, for Floor EPABX lines interconnections	20	Rmt		-
3	Telephone krone tag box Providing and fixing of 20 pair Krone Tag box / 10 pair Krone type connector module housed in a Powder coated GI box with lockable cover of suitable size including termination complete with numbering of each cable with Ferule and a Telephone Connection chart.		Nos.		-
F	TOTAL OF TELEPHONE SYSTEM				-
G	DATA CABLING SYSTEM				
1	Data points Supplying and laying D-Link / Molex / Aways / Amps make, Cat 6 cable for Data, laid through 20/25 mm size, MMS Grade PVC conduites and providing & terminating with RJ-45 Information Outlet Ports with face plates in suitable modular PVC / MS box from Server Rack/ Patch Panel/ Data Switch to individual work stations & terminating other end with RJ-45 connector including numbering with ferule (No seperate measurements for PVC Conduits)	9	Nos.		-
2	Supplying & laying Cat-6, RJ-45, 1 m. length Data Patch Cords, Make : D-Link / Molex / Aways	9	Nos.		-
3	Supplying & laying Cat-6, RJ-45, 2 met length Data Patch Cords, Make : D-Link / Molex / Aways	9	Nos.		-
4	Patch panel				
a.	Supplying and Installing D-Link make, preloaded, Cat-6, RJ-45, 16 Port Patch Panel, complete with terminations & numbering with ferule	1	Nos.		-
	Rate in words :-				
5	Supplying & Installing D-Link / HCL / iBall make 12-U Networking Wall mounting rack , complete with following mentioned accessories	1	Nos.		-
	* 2U Horizontal Cable Manager				
	* Power Distribution Unit / Power Strip of 6 Sockets				

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SR	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
	* Cooling Fans * Cantilever Trays / Shelves * Hardware Packet				
G	TOTAL OF DATA CABLING SYSTEM				-
	Total Amount				-

Internal