

BILL OF QUANTITIES

FOR CANARA BANK ELECTRICAL WORKS AT: BRANCH & ATM LOBBY AT HAILY MANDI BRANCH, (HR)

S.No	ITEM	QTY	UNIT	RATE	AMOUNT
A" ELECTRICAL WORKS					
1	Wiring for light points, Ceiling Fan Points , Call bell points with 2x1.50sqmm PVC insulated copper conductor wire of approved make of 650/1100 volts grade (Finolex make Flame gard quality) in concealed / exposed PVC Pipe including by 5 Amp modular switches of approved with MS boxes, including making all the connections, including cutting chases and making good the surfaces wherever required.				
	a) One point controlled by one switch. (as per drgs)	60	points		
	b) Two points controlled by one switch (Down Lights & Strip type 1x2)	15	points		
	c) One Point Control by one switch (UPS points)	2	points		
2	Wiring for 6Amp light plug points with 2x1.50 sqmm PVC insulated copper conductor wire of 650/1100 volts grade(Finolex make Flame gard quality) with PVC insulated Copper earth wire in concealed / exposed PVC Pipe,including 5pin 5Amp Socket with switch (Anchor Roma / MK make) with MS boxes with hylam sheet plate with earthing the third points, including cutting chases and making good the surfaces wherever required.				
a	Light Plug Points in Counter / Walls	15	points		
b	Light Plug Points for Bracket fans	11	points		
3	Wiring for 16Amp power plug points with 2x2.50 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with PVC insulated copper earth wire in concealed / exposed PVC Pipe including 6pin 15Amp Modular Socket and switch of approved make with MS boxes with earthing the third points, including cutting chases and making good the surfaces wherever required.	12	points		
4	Wiring for light circuit with 2x1.50sqmm PVC insulated copper conductor wire of approved make of 650/1100 volts grade of approved make (Finolex make Flame gard quality) in concealed / exposed PVC Pipe , with PVC insulated copper earth wire ,including making all the connections, including cutting chases making good the surfaces wherever required.	15	points		
5	Wiring for power circuit with 2x 4.0 sqmm PVC insulated copper conductor wire of 650/1100 volts grade(Finolex make Flame gard quality) of approved make in concealed / exposed PVC with PVC pipe with insulated copper earth wire ,including making all the connections, including cutting chases and making good the surfaces wherever required.	8	points		
6	Wiring for Air Conditioners points with 4x6 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with PVC insulated copper earth wire in concealed / exposed PVC Pipe including Concealed Industrial Metallic Socket with 32 Amp TP MCB housed in MS sheet box with PVC insulated Copper earth wire, including cutting chases and making good the surfaces wherever required. (Circuit Shall not be paid extra) Point shall be from DB to Switch / Socket / stablised to indoor /outdoor unit)	2	points		
7	Wiring for Air Conditioners points with 2x6 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with PVC insulated copper earth wire in concealed / exposed PVC Pipe including Concealed Industrial Metallic Socket with 25 / 32 Amp SP MCB housed in MS sheet box with PVC insulated Copper earth wire, including cutting chases and making good the surfaces wherever required. (Circuit Shall not be paid extra) Point shall be from DB to Switch / Socket / stabliser to indoor /outdoor unit as required	4	points		

S.No	ITEM	QTY	UNIT	RATE	AMOUNT
8	Wiring for Air Conditioners points with 2x4 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with PVC insulated copper earth wire in concealed / exposed PVC Pipe including Concealed Industrial Metallic Socket with 20 /25 Amp SP MCB housed in MS sheet box with PVC insulated Copper earth wire, including cutting chases and making good the surfaces wherever required. (Circuit Shall not be paid extra) Point shall be from DB to Switch / Socket / stabiliser to indoor /outdoor unit as required	1	points		
9	Supplying / Installation testing and commissioning of following fittings and fixtures with proper connections with all material and labour to make the installation complete in all respect with required tubes, bulbs, lamps etc.				
a.	36 W LED light fixture (Recess mounted) High efficiency (Philips make Catalogue / Ref No RC375BLED28S/840PSUW60L60WH or approved equivalent	20	nos		
b.	20 W LED Batten (Philips make Cat / Ref No. BN020CLEL 20S PSU NW / CDL GR or approved equivalent	14	nos		
c.	Wall / Bracket Fan 400mm sweep wall fan Model swing desire wall fan (Crompton High flow wall fan or approved equivalent	11	nos		
d.	Ceiling Fan (54" dia) (Crompton make) with electronics regulators or approved equivalent	3	nos		
e.	12.5 W LED high efficiency recess mounted Circular down light 142mm dia (Philips make cat no.DN172BLED9S-3000PSU WH or approved equivalent	30	nos		
f.	300mm dia exhaust fan (Crompton make) with all connections with all connections. Or approved equivalent	4	nos		
g	LED Strip for cove lighting 15 W per 5 M with driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by SBIIIMS/Architect.	6	nos		
10	Wiring for telephone points with 2 pair of 0.61 mm copper wire with PVC PIPE / with RJ-11 Connector with face plate / IO port in suitable modular MS box with all connections	10	points		
11	Wiring for UPS points with 2x1.50 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed PVC Pipe / Conduit including making all the connections, including cutting chases and making good the surfaces wherever required. including Supplying & fixing in position Computer Socket Board with 3nos 5Amp 6 pin sockets with switch with 1 no. 16Amp switch with fuse and light indicator mounted on wooden / PVC board (max. two points on each circuit, Circuit shall not be paid extra)	15	points		
a	same as above but with 1 nos 16 Amp Socket with 16Amp Switch	2	points		
12	Supply and fixing 1100V grade armored cable having circular shaped aluminum conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armored and overall extruded PVC sheathed conforming to IS: 1554, laid on wall / ceiling using G I clamps and spacers as per route shown at site in the following sizes with end termination including compressed type brass glands, crimping type copper lugs insulation tape etc as required complete with earthing . (METER TO PANEL BOARD)3.5 x 70 sqmm aluminium armoured cable.	0	mtr		
13	Wiring with 4x10 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / PVC Pipe / Conduit including making all the connections, including cutting chases and making good the surfaces wherever required.	20	mtr		

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14	Wiring with 4x6 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed PVC Pipe, including making all the connections, including cutting chases and making good the surfaces wherever required.	30	Mtr		
15	Wiring with 2x10 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed PVC Pipe / Conduit including making all the connections, including cutting chases and making good the surfaces wherever required.	30	mtr		
16	Wiring with 2x6 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed PVC Pipe / Conduit including making all the connections, including cutting chases and making good the surfaces wherever required.	50	mtr		
17	Wiring with 2x4 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed PVC Pipe including making all the connections, including cutting chases and making good the surfaces wherever required.	25	mtr		
18	Chemical Earthing using Electrode of size 80 mm dia, 2 meter long connected with 50X6 mm Copper internal strip complete with excavation /borng, civil works, cast iron cover with filling of compound. The voltage between Neutral & Earth not to exceed 2 volts. including bore holes wherever required and putting the earth as per requirement	2	nos		
19	Wiring with 1x10 sqmm PVC insulated copper conductor wire of 650/1100 volts grade (Finolex make Flame gaurd quality) as earth wire with concealed / exposed M S Conduit (16 SWG), including making all the connections, including cutting chases and making good the surfaces wherever required.	40	mtr		
20	Supplying & fixing 63 Amp DP MCB housed in M.S. sheet box with all connections	2	nos		
21	Main Panel Board Design, Manufacture, Supplying and ommissioning of 1.6mm thick MS sheet fabricated cubicle type , wall / floor mounted fully recessed / partly recessed with dust proof hinged and lockable doors, brass cable glands for incoming and out going connections with inter connections with copper tapes /wires, earthing and painting with HRC fuses with volt meter, Am-meter, selector switch , CTs, back up fuses,toggle switches including earthing of all components with 1 nos, 0-200A, Ammeter with CT and selector switch 1 no., 0-500 V, voltmeter with selector switch and fuse 2 sets of TPN copper bus bar suitable for 125 Amp load 1 set, RYBm indicating lamp with resistors and fuses with a) 1 No. 125 A, FP, Changeover Switch + 1 no 125 Amp(25KA) TPN MCCB with ELR (03A) and CBCT as in comer. OUTGOING b) 2 nos 40A TPN MCB 5 nos. 63 A TPN MCB 3 nos. 32 / 40 A DP MCB	1	set		
22	Supplying and Installation of TPN MCB type power Distribution board (double door) wall mounted fully recessed in wall indoor cubicle type with dust proof hinged doors complete with inter connections with copper wires, cable glands earthing and painting with In Coming : 100 Amp TPN ELCB (100mA) = 1 no. Out going : 16- 25 Amp SP MCB = 18 nos	1	nos		
23	Supply and installation of 'MCB type Distribution Board(double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with earthing legs, housing following switch gears a) 1 nos 40 A DP MCB as incommer b) 12 nos, 6-16 Amp SP MCB	1	nos		

S.No	ITEM	QTY	UNIT	RATE	AMOUNT
24	Supplying and Installation of MCB type (UPS- IN COMING DB) Distribution board (double door) wall mounted fully recessed in wall, sheet metal , powder coated having dust proof and vermin proof gasketed and hinged door with all internals such as DIN rails, neutral-links etc. with all connections with copper wires, cable glands earthing and painting with In Coming : 63 Amp TPN MCB = 1 no. UPS Incomer 40Amp DP MCB = 2 nos. UPS Outgoing 40Amp DP MCB = 2 nos.	1	nos		
25	Supplying and Installation of MCB type (UPS-DB) Distribution board (double door) wall mounted fully recessed in wall, sheet metal , powder coated having dust proof and vermin proof gasketed and hinged door with all internals such as DIN rails, neutral-links etc. with all connections with copper wires, cable glands earthing and painting with In Coming : 40 Amp DP MCB = 1 no. Out going : 10-16 Amp SP MCB = 10 nos. (for Computer Points on all Tables / Counters etc)	1	nos		
26	Supplying and Installation of MCB type (UPS-DB) Distribution board (double door) wall mounted fully recessed in wall, sheet metal , powder coated having dust proof and vermin proof gasketed and hinged door with all internals such as DIN rails, neutral-links etc. with all connections with copper wires, cable glands earthing and painting with In Coming : 40 Amp DP MCB = 1 no. Out going : 10-16 Amp SP MCB = 10 nos. (UPS DB for CCTV / Fire - Burglar Alaram System /Networking Rack / ATM - if separate UPS not available for ATM)	1	nos		
27	Providing and fixing of telephone tag block (Krone) of following sizes housed in GI box with cover of suitable size including termination (20 pair	2	nos		
28	Supplying & Fixing Call bell (Ding Dong of Anchor make)	1	nos		
29	Providing & Fixing Vinyl sticker on Electrical DBs like, " Switch Off at Night ", Switch Off For Safety , etc	4.00	Nos.		
30	Providing & Fixing LED panel indicator lights set (4 Nos. RED, YELLOW, BLUE & GREEN Color) in a concealed PVC modular box.	1.00	set		
31	Wiring in heavy duty PVC conduit of IS specification of proper size with 2 runs of 1.5sq.mm single core PVC insulated stranded copper wire 1.1KV grade (FRLS Wire of approved make) and with all material supply installation and commissioning complete from Computer Counter DB, AC DB, LDB, PDB outgoing to a set of indication lamp set (4 Nos. RED, YELLOW, BLUE & GREEN Color).	10.00	Mtrs		
32	Providing & Fixing Angle holder complete in all respect with 9W LED lamp with connections	2.00	Nos.		
33	Supply and laying of ISI mark Electrical safety Insulating rubber mat-11KV of size 1000mm X 1200mm x.2 / 2.5mm in UPS Room.	1.00	Nos.		
"A" ELECTRICAL WORKS TOATL					Rs
"B" DATA CABLING WORKS					
1	Supplying & drawing CAT-6 data Cable (D-link make) with concealed 2mm thick (ISI approved)PVC pipe (AKG, Setia make) , including making all the connections, including cutting chases and making good the surfaces wherever required including Supplying & fixing Surface mounted I.O. Unit (D-link make) with RJ-45 connector (D Link make)	20	points		
2	Supplying & fixing Patch cord of D-link make (1 metre long)	20	nos		
3	Supplying & fixing Patch cord of D-link make (2 metre long)	20	nos		
4	Providing & fixing 12 U wall mounted network rack including ervation of all data	1	nos		
5	Supplying & fixing RJ 45- 24 Port Jack Panel (D-link make)	1	nos		
6	Fixing RJ 45- 24 Port Switch (D-link make)	1	nos		
"B" DATA CABLING WORKS				TOTAL	Rs
"C" ATM ELECTRICAL WORKS					

S.No	ITEM	QTY	UNIT	RATE	AMOUNT
1	Wiring for light points with 2x1.50sqmm PVC insulated copper conductor wire of approved make of 650/1100 volts grade FRLS of Finolex / Polycab / RR Cable make in concealed 2mm thick PVC Pipe of AKG / BEC make including by 6 Amp modular switches of MK / LEGREND / ANCHOR ROMA make with MS boxes with plate , including making all the connections, including cutting chases and making good the surfaces wherever required.				
	a) One point controlled by one switch.)	2	points		
	b) Two points controlled by one switch	1	points		
2	Wiring for 6Amp light plug points with 2x1.50 sqmm PVC insulated copper conductor wire of 650/1100 volts grade FRLS of Finolex / Polycab/ RR Cable make in concealed 2mm thick PVC Pipe of AKG / BEC make with PVC insulated 1.50 sqmm Copper earth wire of approved make in 2mm thick PVC Pipe of AKG / BEC make including by 6 Amp modular switches and 6Amp Socket with switch of LEGREND / MK / ANCHOR ROMA make with MS boxes with Modular plate with earthing the third points, including cutting chases and making good the surfaces wherever required.				
		2	points		
3	Wiring for 16Amp power plug points with 2x2.50 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with PVC insulated copper earth wire in concealed / exposed PVC Pipe including 6pin 15Amp Modular Socket and switch of approved make with MS boxes with earthing the third points, including cutting chases and making good the surfaces wherever required.				
		1	points		
4	Wiring for UPS points with 2x2.50 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed PVC Pipe / Conduit including making all the connections, including cutting chases and making good the surfaces wherever required. including Supplying & fixing in position Computer Socket Board with 2nos 16Amp 6 pin sockets with switches (Anchor Roma / MK make) with fuse and light indicator mounted on wooden / PVC board				
		2	points		
5	Supplying / Installation testing and commissioning of following fittings and fixtures with proper connections with all material and labour to make the installation complete in all respect with required tubes, bulbs, lamps etc.				
	a. 36 W LED light fixture (Recess mounted) High efficiency (Philips make Catalogue / Ref No RC375BLED28S/840PSUW60L60WH	1	nos		
	b. 12.5 W LED high efficiency recess mounted Circular down light 142mm dia (Philips make cat no.DN172BLED9S-3000PSU WH	2	nos		
6	Wiring for Air Conditioners points with 2x4 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with PVC insulated copper earth wire in concealed / exposed M S Conduit (16 SWG), including Concealed Industrial Metallic Socket with 25 Amp SP MCB housed in MS sheet box with PVC insulated Copper earth wire, including cutting chases and making good the surfaces wherever required. (Circuit Shall not be paid extra) Point shall be from DB to Switch / Socket to indoor /outdoor unit)				
		2	points		
7	Wiring with 2x10 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed M S Conduit (16 SWG) including making all the connections, including cutting chases and making good the surfaces wherever required. (Main to DBs)				
		10	mtr		
8	Wiring with 2x6 sqmm PVC insulated copper conductor wire of 650/1100 volts grade of approved make with required earth wire with concealed / exposed M S Conduit (16 SWG), including making all the connections, including cutting chases and making good the surfaces wherever required.				
		20	mtr		
9	Chemical Earthing using Electrode of size 80 mm dia, 2 meter long connected with 50X6 mm Copper internal strip complete with excavation /borng, civil works, cast iron cover with filling of compound. The voltage between Neutral & Earth not to exceed 2 volts. including bore holes wherever required and putting the earth as per requirement				
		1	nos		
10	Wiring with 1x10 sqmm PVC insulated copper conductor wire of 650/1100 volts grade (Finolex make Flame gaurd quality) as earth wire with concealed / exposed PVC Pipe / Conduit , including making all the connections, including cutting chases and making good the surfaces wherever required.				
		20	mtr		

S.No	ITEM	QTY	UNIT	RATE	AMOUNT
11	Supplying and Installation of MCB type power Distribution board (double door) wall mounted fully recessed in wall indoor cubicle type with dust proof hinged doors complete with inter connections with copper wires, cable glands earthing and painting with In Coming : 63 Amp DP MCB = 1 no. Out going : 10-25 Amp SP MCB = 6 nos	1	nos		
12	Supplying & fixing 63 Amp DP MCB housed in M.S. sheet box with all connections	2	nos		
	"C" ATM ELECTRICAL WORKS			TOTAL	

SUMMARY

	"A" ELECTRICAL WORKS		Rs		
	"B" DATA CABLING WORKS		Rs		
	"C" ELECTRICAL WORKS (ATM)		Rs		
	TOTAL		Rs		

EXCLUDING GST