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**BOQ FOR ELECTRICAL WORK OF CANARA
BANK BRANCH AND ATM AT SECTOR 12 KARNAL (HR.)**

8th July 2024

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)	50	points		
	b) Two points controlled by one switch (Down Lights & Strip type 1x2)	20	points		
2	Wiring for 5Amp 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 M S Conduit (16 SWG),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 / Wall s	15	points		
b	Light Plug Points for Bracket fans	24	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.	Internal	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)		7	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 20 / 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	0	points		
8	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		
9	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	1	nos		
9A	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,				
a.	36 W LED light fixture (Recess mounted) High efficiency (Philips make Catalogue / Ref No RC375BLED28S/840PSUW60L60WH	21	nos		
b.	20W LED Batten (Philips make Cat / Ref No. BN028 CLED 20S PSU NW / CDL GR Or Equivalent	12	nos		

c.	Wall Fan :- 450 mm sweep , oscillating type, full metal blades and body, copper motor 3-speed pull control , single piece type propeller Wall/Brackets fan (Supply & Fixing) Make: Almonard Tempest II/ Bajaj MK II/ CG Champ Air.	20	nos		
d.	Removing & Refixing of existing / old Ceiling Fan (Crompton make) and P/F electronics regulators	2	nos		
e.	12.5 W LED high efficiency recess mounted Circular down light 142mm dia (Philips make cat no.DN172BLED9S-3000PSU WH	34	nos		
f.	300mm dia exhaust fan (Crompton make) with all connections with all connections with MS Frame	2	nos		
g.	1200mm dia Ceiling Fan with electronic regulators (Crompton Make)	1	nos		
h.	Extra for Providing & Fixing MS Fan Clamp including cutting of RCC and fixing of hook and making good the surfaces	2	nos		
10	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.	30	mtr		
11	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.	20	mtr		

12	Wiring for telephone points with 2 pair of 0.61 mm copper wire with M S Conduit (16 SWG), with RJ-11 Connector with face plate / IO port in suitable modular MS box with all connections	12	points		
13	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 5 pin sockets with switch with 1 no. 15Amp switch (Anchor Roma / MK make) with fuse and light indicator mounted on wooden / PVC board (max. two points on each circuit, Circuit shall not be paid extra)	17	points		
14	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.	15	mtr		
15	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.	15	mtr		
16	Wiring with 4x6 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.	15	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 M S Conduit (16 SWG), including making all the connections, including cutting chases and making good the surfaces wherever required.	15	mtr		
18a	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		
18b	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.	25	mtr		
19	Supplying & fixing 63 Amp DP MCB housed in M.S. sheet box with all connections	2	nos		

20	<p>Design, Manufacture, Supplying and Commissioning Main LT Panel MS 3' X 4'-0" Distribution Board of 1.6mm thick MS sheet fabricated cubicle type with Danger Notice Board indicating sign (DANGER) in English, Hindi, Pinjabi. , wall 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 consists of following:-</p> <p>(i) A cubical having 200 Amps TPN MCCB(Before bus bar) breaking current 20KA, 200 Amps TPN Bus Bar(Copper Tinned), voltmeter, ammeter & Digital power factor meter , three indicators, C.Ts. with selector switches & backup fuses (HRC type)</p> <p>(ii) 200 Amps 4 Pole Heavy duty on load change over switch-1 No.</p> <p>(iii) 63 amps 3 phase and neutral 6 way Lighting D.B. with suitable rated 6/10/16 Amps SP MCB-8 Nos(for switch board wiring)., 32/40Amp DP MCB-3 Nos.(1 for ATM UPS i/p, 2 Spare)</p> <p>(iv) 63 Amps 3 phase & neutral 6 way Power DB with suitable rated 32/40 Amps DP MCB-9 Nos. (7 for AC ckt 2 spare) 20 Amps SP MCB-10 Nos (8 nos for 16A plug point each separate wiring, 1 for glow sign, 1 spare)</p> <p>(v) 63 Amps FP ELCB-1 Nos. for LDB & 63 Amps FP ELCB-1 No. for PDB, ELCB of 30MA having 30 m Sec. Sensitivity (Complete as per technical specifications and including earthing of each Electrical equipments)</p> <p>(vi) LT Panel labeling using aluminium strip for section wise load distribution (Complete as per technical specifications and including earthing of each Electrical equipments)</p>	1	nos		
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21	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		
22	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.	2	nos		
23	Supplying laying and terminating with colour code identification on either ends 20 pair of 0.61 mm annealed tinned screen protected copper conductor PCC sheated telephone cable with PVC Pipe / Conduit	30	Mtr		
24	Providing and fixing of telephone tag block (Krone) of following sizes housed in GI box with cover of suitable size including termination (20 pair	1	nos		
25	Supplying & Fixing Call bell (Ding Dong of Anchor make)	1	nos		
26	Providing 18A Analog timer L & T make & one 18A, ML-18, L & T make Contactor. This is to connected in the glow sign board wiring in such a way that timer should control the contactor	1	nos		

27	Four Pole ICTP Switch with three Kitkat fuses of 200 A (Before main panel) for receiving 3 Phase & Neutral Supply 100 Amps (Main Supply PSEB) To be installed at suitable location (Not to be installed in open space)	1	nos		
	"A" ELECTRICAL WORKS	TOTAL			
	"B" DATA CABLING WORKS				
26	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)	19	points		
27	Supplying & fixing Patch cord of D-link make (1 metre long)	10	nos		
28	Supplying & fixing Patch cord of D-link make (2 metre long)	12	nos		
29	Providing & fixing 12 U wall mounted network rack including termination of all data points.	1	nos		
30	Providing & fixing RJ 45- 24 Port Jack Panel (D-link make)	1	nos		
31	Providing & fixing RJ 45- 24 Port Switch (D-link make)	1	nos		
	"B" DATA CABLING WORKS	TOTAL			
	"C" ATM ELECTRICAL WORKS				

32	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	2	points		
33	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.				
a	Light Plug Points in Counter / Walls / Partitions	2	points		
b	Light Plug Points for Bracket fans / Exhaust Fan	1	points		

34	Wiring for 16Amp power plug points with 2x2.50 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 / GUPTA make with 2.50 sqmm PVC insulated copper earth wire in concealed / exposed PVC Pipe including 6pin 16Amp Socket with switch of MK / LEGREND / ANCHOR ROMA make with MS boxes with MS boxes with modular sheet plate with earthing the third points, including cutting chases and making good the surfaces wherever required.		1 points		
35	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		3 points		
36	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		2 nos		
b	12.5 W LED high efficiency recess mounted Circular down light 142mm dia (Philips make cat no.DN172BLED9S-3000PSU WH		0 nos		

37	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 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		
38	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)		15 mtr		
39	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. Main to Light DB + UPS outgoing		10 mtr		
40	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		
41	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		

42	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		
43	Supplying & fixing 63 Amp DP MCB housed in M.S. sheet box with all connections				
			2 nos		
	"C" ATM ELECTRICAL WORKS	TOTAL		RS	

SUMMARY

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

GST EXTRA @ 18%

The contractor is strictly advised to use the makes specified/approved by the Bank/ Architect, unspecified items will not be paid until they are changed with the specified ones. Copy of Purchase Bills to be submitted to the Architect/ Engineer.

Note: No Electrical Points to be provided in ATM Room. All the Electrical Points/ Switches of ATM must be provided inside the Branch. All switches should be operated from Branch only.