

BOQ - ELECTRICAL WORKS AT CANARA BANK KARTALA BRANCH					
S.NO.	DESCRIPTION OF ITEM	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Installation of 200Amp Kit kat Fuse unit 3 nos with 200 Amp neutral link on wooden board (3' x 3') complete with connections (new).	1	Set		
2	<b>ELECTRICAL PANEL</b> Design, manufacture, providing, storing & installing in position, effecting proper connection, testing and commissioning of panel made of 14 SWG, CRCA sheet steel. It shall be dust and vermin proof. It shall have compartmentalized construction with bus bar chambers, cable alley, cable glands plate etc. as required, duly painted from inside as well outside. It shall have the following - <b>MAIN PANEL.</b> 1 No. 100 Amp. TPN, MCCB (18 KA breaking capacity), Busbars. 100 Amp., 3 phase, 4 strips, 415 volts, 50 Hz. copper busbars with colour coded PVC heat shrinkable sleeves. Instruments. Multi function Meter for Voltage, Ampere, Power factor, KWH, Data 1 No. with CT 75/5 Outgoing. 6 Nos. 63 Amp. TP, MCB (For LDB, PDB, Branch UPS DB, ATM UPS DB and Spare Feeder) 10 AMP DP MCB. 3 Nos (for Glow Sign board, ATM Lighting and spare feeder) <b>1 No., 100 Amp. Four Pole Change Over for D.G. Set. (Seperate from the panel)</b> The design of panel should be got approved by the Architect before manufacturing. The job shall be completed, to the satisfaction of the Bank Engineer/Architect.	1	Nos.		
3	<b>UPS I/P, O/P AND DISTRIBUTION</b>				
a.	20/32 AMP industrial socket along with MCB for UPS I/P and O/P	4	Nos.		
b.	6 WAY TPN DB Double Door (3 No. 25 AMP DP MCB and 18 NOS. 6-10 AMP SPMCB) (Branch UPS power Distribution)		No.		
c.	12 way SPN db double door (1Nos 32A DPMCB and 10 Nos. 6 to 16A SPMCB ) UPS Power Branch .	1	No.		
d.	4 Way SPN db double door (4 Nos. of 6A SPMCB FOR CC camara and and networking rack.	1	No.		
e.	8 WAY SPN DB Double Door (1 No. 32 AMP DP MCB and 6 NOS. 6-10 AMP SPMCB) (UPS power Distributionin ATM)	1	No.		
f.	SITC of 63 Amp TPN MCB in Encloser complete in all respects as required. (Branch UPS)	1	No.		
g	SITC of 40 Amp TPN MCB in Encloser complete in all respects as required. (ATM UPS)	1	No.		
h	SITC of 63Amp Rotary Phase selector switch complete with RYB indication lifht in incloser complete in all respects as required. (Branch & ATM UPS)	2	Nos.		
4	<b>RAW POWER &amp; FAN, LIGHTING DB &amp; AC DISTRIBUTION BOARD</b>				
a.	6 WAY TPN DB Double Door (1 No. 40 AMP TP MCB and 12 Nos. 6-32 AMP. SPMCB) (For 1 DB for Raw Power & 1 DB for Lifht + Fan) all complete	1	Nos.		

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b.	4 WAY TPN DB Double Door (1 No. 63 AMP TP MCB and 12 Nos. 20-32 AMP. SPMCB) (For Branch & atm AC) all complete with blanking plates	1	Nos.		
5	<b>CABLES</b>				
a.	3.5 Core 35.0 Sq.mm Aluminium Armoured Cable (Electric Meter to Electric Panel)	15	Mtr.		
b.	4 X 6.0 Sq.mm Copper Wire + 1X 4.0 Sqmm copper earth wire in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. compete (Panel to UPS Incomer, LDP, PDB and ATM UPS Incomer)	60	Mtr.		
c.	Same as above but 4 x 10.00 Sqmm Copper Counductor Cable. (Kit Kat fuse unit to AC DB) complete with lugs.	25	Mtr.		
d.	2 X 6.0 Sq.mm Copper Wire (ROTARY SWITCH TO UPS and UPS DB) + 1X 2.5 Sqmm copper earth wire in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. compete	60	Mtr.		
e.	2 X 2.5 Sq.mm Copper Wire (Electric Panel to ATM Light Board & Glow Sign Board) + 1X 1.5 Sqmm copper earth wire in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. compete with lugs	20	Mtr.		
6	<b>AC POINT</b>				
a.	Point Wiring with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & 20/25 Amp. Metallic plug & Socket DB complete in all respect as required by the Bank (for 1.0 & 1.5 Tr AC)	6	Nos.		
b.	Point Wiring with 2 No. 6.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & 32 Amp. Metallic plug & Socket DB complete in all respect as required by the Bank (for 2.0 Tr AC)	1	Nos.		
7	<b>EARTHING</b>				
a.	PIP technology GEL type 50mmdia 3000mm long earth electrod. (One Dedicated Earthing for ATM)	4	Nos.		
b.	12 SWG Bare Copper Earth Wire from earthing pit /Earth terminal to load point (UPS DB and Main DB etc)	50	Mtr.		
8	<b>UPS POINT</b>				
a	Supply & Installation of point wiring for <b>Primary UPS</b> or stabilized power plug points on workstations / table for computers using 3 X1.5 Sq.mm copper conductor multi starnd FR PVC sheathed flexible 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 2 nos of 10A , 3 pin sockets & 1 No., 20A Switch with socket (Modular)with indicator, wired together forming one point. The earth wire of green color only. (15 nos. from Branch UPS DP & 3 nos. from ATM UPS DB)	7	Nos.		

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S.NO.	DESCRIPTION OF ITEM	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
b	Supply & Installation of point wiring for <b>Secondry UPS</b> or stabilized power plug points looped through primary UPS point on workstations / table for computers using 3 X1.5 Sq.mm copper conductor multi starnd FR PVC sheathed flexible wire pulled through floor raceways/PVC conduit and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 2 nos of 10A , 3 pin sockets & 1 No., 20A Switch with socket (Modular)with indicator, wired together forming one point. The earth wire of green color only. (2 nos. from Branch UPS DP & 2 nos. from ATM UPS DB)		Nos.		
<b>9</b>	<b>RAW POWER POINT</b>				
	Supply & Installation of point wiring for Raw power plug points on workstations / table for computers using 3 X2.5 Sq.mm copper conductor PVC sheathed flexible wire pulled through already laid floor raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 1 nos of 16A , 6 pin sockets & 1 No., 16A Switch (Modular), wired together forming one point. The earth wire of green color only.	6	Nos.		
<b>10</b>	<b>LIGHT/FAN POINT</b>				
	Supply & Installation of concealed point wiring using 600v grade 1.5 Sq.mm copper conductor PVC insulated wires (with proper R,Y,B color code ) pulled through heavy gauge PVC conduits laid concealed over false ceiling including 2 Nos. 2.5 sqmm circuit wires from the relevant DB and also including 2.5 sqmm green color copper earth wire and switch plate, switches, etc. as approved by the Bank's Engineer/Architect.				
a.	Primary light points including the cost of 10 A modular switch	33	Nos.		
b.	Secondary light points looped from the primary point	11	Nos.		
c.	Ceiling Fan Point including the cost of 10A modular Switch along with 4/5 step electronic fan regulator.	14	Nos.		
d.	Wall Fan Point along with 10 AMP modular switch	1	Nos.		
e.	Exhaust Fan Point along with 10 AMP modular switch	2	Nos.		
f.	6/10A Switch with 5pin 10A socket in light & fan board	5	Nos.		
<b>11</b>	<b>DATA CABLING &amp; POINT</b>				
	Supplying and laying of D-Link make CAT-6 (UTP) cable through trenches / conduits.				
a.	Supplying and laying D-link make CAT-6 Cable complete with CAT-6 information outlet with plate & suface Box at individual Tables	8	Nos.		
b.	Supplying and fixing of 2 mtr long crimped patch cord	8	Nos.		
c.	Supplying and fixing of 1 Mtr long crimped patch cord	8	No.		
d.	jack Panel # 24 ports		No.		
e.	24 Port D-Link Switch	1	No.		
f.	SITC of 9U rack	1	No.		
<b>12</b>	<b>VOICE NETWORKING</b>				

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S.NO.	DESCRIPTION OF ITEM	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
a.	Supply and fixing of 10 pair telephone MDF consisting of tag blocks, disconnecter type, complete with powder coated metal enclose, krone tag block mounting arrangement telephone distribution chart and locking arrangement [for P&T/EPABX]	1	Job		
b.	Supplying and laying telephone cables 0.5mm dia 2 pair electrolytic tinned copper conductors PVC insulated and twisted pair with rip cord, through PVC conduits/Raceways and RJ11 telephone socket outlet. The rate shall include termination at both ends on tag blocks.				
(i)	1 No. RJ11 Telephone socket with plate and box	2	Nos.		
(ii)	2 Nos. RJ11 Telephone socket with plate and box		No.		
13	<b>FIXTURES</b>				
a.	Supply and Installation of Square light fitting (2' x 2') LED green square Philips. Supply and Installation of Square light fitting (2' x 2') LED green square Philips.	11	Nos.		
b.	Down Lighter 1x12W LED Panel white	22	Nos.		
c.	Tube Light(LED) - Patti Type. (18 watts)	6	Nos.		
d.	400mm Wall Mounted Fan	1	Nos.		
e.	1200mm Ceiling Fan	14	Nos.		
f.	Exhaust Fan (9") Metal Body	2	Nos.		
g.	Call Bell Wireless.	1	No.		
h.	1x 7 W LED Bulb with holder	5	No.		
	<b>TOTAL (Rs.)</b>				