

BOQ - ELECTRICAL WORKS AT RO AND RAH CANARA BANK ETAH					
<u>RAH ELECTRICAL</u>					
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	ELECTRICAL PANEL 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 - MAIN PANEL. 2 No. 160 Amp. TPN, MCCB (32 KA breaking capacity), Busbars. 200 Amp., 3 phase, 4 strips, 415 volts, 50 Hz. copper busbars with colour coded PVC heat shrinkable sleeves. Instruments. Voltage- Meter Outgoing. 4 Nos. 63 Amp. TPN, MCB (For LDB, PDB, AC DB, and Spare Feeder) 60 AMP DP MCB. 3 Nos (for UPS, and spare feeder) 1 No., 200 Amp. Four Pole Change 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	UPS I/P, O/P AND DISTRIBUTION				
a.	20/32 AMP industrial socket along with MCB for UPS I/P and O/P	2	Nos.		
B.	12 way SPN db double door (1Nos 32A DPMCB and 10 Nos. 6 to 16A SPMCB) UPS Power of RAH .	1	No.		
C.	SITC of 63 Amp DP MCB in Encloser complete in all respects as required. (UPS)	3	No.		
4	RAW POWER & FAN, LIGHTING DB & AC DISTRIBUTION BOARD				
a.	4 WAY TPN DB Double Door (1 No. 63 AMP TP MCB and 12 Nos. 6-32 AMP. SPMCB) (For AC,Light system, Power Points) all complete with blanking plates	3	Nos.		
b.	S/I/T/C of 4 way SPN DB with 4 Nos. 6 Amp SP MCB for CC camara and networking Rack.	1	Nos.		
5	CABLES				
a.	3.5 Core 35.0 Sq.mm Aluminium Armoured Cable (Electric Meter to Electric Panel)	70	Mtr.		

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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)	60	Mtr.		
c.	Same as above but 4 x 10.00 Sqmm and 1x4.0 Sqmm Copper Counductor Cable. (AC DB) complete with lugs.	50	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	110	Mtr.		
e.	2 X 2.5 Sq.mm Copper Wire (Electric Panel to 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	AC POINT				
a.	Point Wiring with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & 20/25 Amp. Metal clad plug & Socket DB complete in all respect as required by the Bank (for 1.0 & 2.0 Tr AC)	4	Nos.		
7	EARTHING				
a.	PIP technology GEL type 50mmdia 3000mm long earth electrod.	2	Nos.		
b.	8 SWG Bare GI Earth Wire from earthing pit /Earth terminal to load point (UPS DB and Main DB etc)	90	Mtr.		
8	UPS POINT				
a	Supply & Installation of point wiring for Primary UPS 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.	14	Nos.		
9	RAW POWER POINT				

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	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, 1 Nos 6A , 6 pin sockets & 1 No., 16A Switch 1 Nos 16A Socket (Modular), wired together forming one point. The earth wire of green color only.	15	Nos.		
10	LIGHT/FAN POINT				
	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	35	Nos.		
b.	Ceiling Fan Point including the cost of 10A modular Switch along with 4/5 step electronic fan regulator.	2	Nos.		
c.	Wall Fan Point along with 10 AMP modular switch	9	Nos.		
d.	6/10A Switch with 5pin 10A socket in light & fan board	6	Nos.		
11	DATA CABLING & POINT				
	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 & surface Box at individual Tables	13	Nos.		
b.	Supplying and fixing of 2 mtr long crimped patch cord	18	Nos.		
c.	24 Port D-Link Switch	1	No.		
d.	SITC of 9U rack	1	No.		
12	FIXTURES				
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.	14	Nos.		
b.	Down Lighter 1x12W LED Panel white	10	Nos.		
c.	Tube Light(LED) - Patti Type. (18 watts)	5	Nos.		
d.	1200mm Ceiling Fan	2	Nos.		
e.	400mm Wall Mounted Fan	10	Nos.		
f.	Call Bell Wireless.	2	No.		
g.	1x 7 W LED Bulb with holder	5	No.		

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<u>RO ELECTRICAL</u>					
1	UPS I/P, O/P AND DISTRIBUTION				
a.	12 way SPN db double door (1Nos 32A DPMCB and 10 Nos. 6 to 16A SPMCB) UPS Power Branch .	1	No.		
2	RAW POWER & FAN, LIGHTING DB & AC DISTRIBUTION BOARD				
a	4 WAY TPN DB Double Door (1 No. 63 AMP TP MCB and 12 Nos. 6-32 AMP. SPMCB) (For AC,Light system, Power Points) all complete with blanking plates	1	Nos.		
3	CABLES				
a.	Same as above but 4 x 10.00 Sqmm and 1x4.00 Sqmm Copper Conductor Cable. (Kit Kat fuse unit to AC DB) complete with lugs.	50	Mtr.		
b.	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	110	Mtr.		
4	AC POINT				
a.	Point Wiring with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & 20/25 Amp. Metal clad plug & Socket DB complete in all respect as required by the Bank (for 1.0 & 1.5 Tr AC)	3	Nos.		
5	UPS POINT				
a	Supply & Installation of point wiring for Primary UPS 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.	6	Nos.		
6	RAW POWER POINT				
	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, 1 nos 6A , 6 pin sockets & 1 No., 16A Switch 1 nos 16A socket (Modular), wired together forming one point. The earth wire of green color only.	10	Nos.		

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	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	13	Nos.		
b.	Ceiling Fan Point including the cost of 10A modular Switch along with 4/5 step electronic fan regulator.	1	Nos.		
c.	Exhaust Fan Point along with 10 AMP modular switch	3	Nos.		
d.	6/10A Switch with 5pin 10A socket in light & fan board	2	Nos.		
8	DATA CABLING & POINT				
	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 & surface Box at individual Tables	8	Nos.		
b.	Supplying and fixing of 2 mtr long crimped patch cord	10	Nos.		
9	FIXTURES				
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.	8	Nos.		
b.	Down Lighter 1x12W LED Panel white	6	Nos.		
c.	Tube Light(LED) - Patti Type. (18 watts)	3	Nos.		
d.	1200mm Ceiling Fan	1	Nos.		
e.	Exhaust Fan (9") Metal Body	5	Nos.		
f.	Call Bell Wireless.	1	No.		
g.	1x 7 W LED Bulb with holder	5	No.		
	TOTAL				

GRAND TOTAL(INC GST)