BOQ for Electrical works for Proposed KGB Regional Office,CHIKKODI.

Sl.No	Description	Unit	Qty	Rate	Amount
1	Supply, Installation, Testing & Commissioning of Distribution Boards recessed in walls/partitions, complete with MCBs/ Bus bars and interconnections. No fabricated DBs shall be allowed. Only DBs of specified makes as per list of materials shall be used(DOUBLE DOOR IP43 Type)				
A	Main DB - 8 Way VTPN MCB DB (1) 100A MCB -1No (2) 32A TP -1 (3)63A TP -1 (4)40A TP -2 (5)25/40A SP MCB-8	Nos	2		
B	AC DB -4WAY VTPN DB (1) 63A TPN-1 (2) 25 SP -12	Nos	1		
C	Lighting DB DB -4WAY TPN DB (1) 32A TPN-1 (2) 10/16A SP -12	Nos	2		
D	UPS DB DB -16WAY SPN DB (1) 32A DP-1 (2) 6/10/16A SP -14	Nos	1		
E	Supply & Installation of 32 A TPN MCB with suitable METALLIC enclosure(UPS INPUT)	Nos	3		
F	Supply & Installation of 100A 4 Pole Change over switch	Nos	1		
g	Supply and fixing of 25A/ 20A DP MCB WITH INDUSTRIAL SOCKET on a suitable metal box for power supply to A/C units including all interconnections as required near the proposed AC locations at 4.5ft from the floor level.	Nos	7		
2	Supply & Laying of following 1100V grade armored cable having sector / circular shaped insulated cores,laid up, PVC tape wrapped inner sheathed, GI strip / wire armored and overall extruded PVC sheathed confirming to IS: 7098, laid along with 2 Runs of 12 SWG GI Wire on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / Architect				
A	5CX 10 Sq mm, CU cable along with 2 Runs of 12SWG GI Wire (Main Panel to DB)	Mtr	55		
B	4CX 10 Sq mm, CU cable along with 2 Runs of 12SWG GI Wire (Mains panel to UPS)	Mtr	40		
3	Supply & Wiring with Flame Retardant Insulated PVC copper wire as per grade IS 994for Circuits, Computer point, Power points within 2mm thk PVC conduits with necessary accessories and with proper clamps and to be concealed below the false ceiling. It comprises as follows:-				
A	2Runs of 4Sqmm copper wire+ 1x 2.5 Sq mm copper wire in PVC conduit (MDB to Acs	Mtr	390		
B	2Runs of 6Sqmm copper wire+ 1x 2.5 Sq mm copper wire in PVC conduit (UPS output to SPN DB)	Mtr	155		
C	2Runs of 2.5 Sqmm copper wire+ 1x 1.5 Sq mm copper wire in PVC conduit (UPS circuits)	Mtr	380		
D	Supplying and laying 3 CX 2.5Sq.mm 1100V grade PVC insulated Flexible cable along with one run of 12SWG GI earth wire in PVC pipes run on wall/ Ceiling etc as required. (Raw power ckts)	Mtr	360		

E	EMERGENCY LIGHTING(UPS SUPPLY) Supply & laying of 3 core 1.5 sq mm copper flexible cable in a suitable FRLS PVC pipe for emergency lighting. The scope of work includes supply & fixing of 2A DP MCB in a suitable enclosure.No of points :One primary point & two secondary points. The scope of work extends to supply & fixing of 3 no of square type 15 watts recess mounted LED lights also	Nos	6		
4	LIGHT & FAN POINT WIRING				
	Supply and wiring for Primary light point with 2Runs of 1.5sq.mm + 1 Run of 1.5 Sqmm (Earth) 650V grade PVC insulated Copper Conductor multi strand wires in heavy gauge 20/25mm dia PVC conduit concealed in wall or with suitable width casing and capping of approved quality along with required accessories when laid on ceiling / below work stations and fixing of 5 Amp Modular type switch in anodised GI box complete with front plate, supplying and fixing 3way ceiling rose or straight / slant batten holder including interconnections required. The rate shall include circuit wiring with 2 runs of 2.5sq.mm multi strand copper conductor wire & 1 run of 1.5sq.mm wire for earth in suitable size heavy gauge 25mm dia PVC conduit from DB to switch & switch board to switch board, ceiling rose and angle holders for cfl light fixtures all complete				
A	Primary points	Nos	58		
B	Two light point controll	Nos	18		
C	Supply and installation of 6A modular socket with a switch in the above modular switch boards	Nos	15		
D	Wiring for the wall mounting fans from the nearest switch board with 1.5sqmm 650V grade multi stranded PVC insulated copper wire in PVC Conduit and all interconnections as required including the supply and fixing of 6A modular socket near the wall mounted fan and 6A switch in the near switch board below fan as required.	Nos	14		
E	Supply and wiring above but for ceiling fan point including GI box and 5 Amp. Control switch, 100W step type Electronic fan regulator etc	Nos	12		
5	MODULAR SOCKETS FOR UPS & RAW POWER				
A	Supply and fixing of 3 nos. 6A sockets with 1 no 16A switch fixed on a suitable module metal box and white front plate (Modular type) including all interconnections as required(switch shall be fixed above the table with suitable modular front plate /box and sockets shall be fixed below the counters) conforming to IS 694 (with latest amendments) with all fixing materials and accessories, interconnections complete as required for the UPS power sockets. (DB to work stations Primary point)		22		
B	PRIMARY POINT: RAW POWER Supply and fixing of 1 no of 16A socket with 1 no of 16A switch on suitable Modular metal box and modular front plate conforming to IS 694 (with latest amendments) with all fixing materials and accessories, interconnections complete as required for the UPS/ raw power sockets etc	Nos	22		
C	Supply and fixing of 1nos. 16A socket for AC	Nos	10		
D	Supply and fixing of 1nos. 16A socket with 1 no 16A switch fixed on a 3 module metal box with suitable 3 pin top and white front plate (Modular type)including all interconnections as required for locker, safe room, Record room/Stationary room	Nos	12		
E	Supply and fixing of ding-dong calling bell in BM chamber INCLUDING POINT WIRING COMPLETE as per direction of Bank	Nos	2		
6	LED LIGHT FIXTURES (COMMERCIAL TYPE ONLY) /FANS				

A	CEILING FAN:- supply & Fixing of 600mm sweep 5 star High speed ceiling fan with electronic step regulator in suitable locations as required. And Supplying of double anchor fastener hooks and down rods . Complete in all respects as directed by Bank. Ref Model : Crompton Greaves high speed model (or) equivalent in other approved make	Nos	8		
B	WALL MOUNTING FANS Supply and Fixing of 18 inch Metal body & Blades wall mounted fans with 3 pin plug top, fan body should be earthed if 3 pin socket not available in the market, Make: Storm model in CG or equivalent	Nos	15		
C	SUPPLY & FIXING OF EXHAUST FANS (Havells Turboforce or equivalent)Supply & fixing of 300 mm ,1400 RPM metal body double bearing exhaust fans in the UPS / rest room . The scope of work includes point wiring & making provision in the wall for installation of exhaust fans and bring back to original finish	Nos	3		
D	Supply & Installation of 33/34W 2X2 LED Light fixtures (Havells - VENUSNEOHE2X2PLR34WLED8XXS or CROMPTON: LCTLRNE-36-FO-CDL or Philips RC 375B30S 6500K or Equivalent models in other approved makes) including cost and conveyance of all materials, taxes and all labor charges etc., complete. Weight of the light should not be on the grid/ Gypsum ceiling. light has to be fixed with the help of GI/chain wires and to the anchored to the ceiling	Nos	25		
E	Supply & Installation of 15W LED down light fixture. (Havells:- Integra NEO15W, 857 CROMPTON: LCDRQ-15-CDL/LCDRO-15- CDL or DN296B LED15S 6500K in Philips or equivalent models in other make) including cost and conveyance of all materials, taxes and all labor charges etc., complete	Nos	20		
F	Supply and Installation of 20W Batten LED light fixtures SURFACE type with all interconnections and fixing arrangement as required. (LUMILINEBS18WLED857SPCWH - Havells or BN021- 21S in Philips or CROMPTON: LDL-20-CDL or equivalent)	Nos	10		
G	Supply & installation of 1 KW analog timer with lighting circuit switching contactor in suitable M.S. Box for branch and e-lounge sign board	Nos	1		
7	TELEPHONE CABLING				
A	Supply, laying and connection of high Conductivity Solid Annealed Bare Copper industrial 2 Pair 0.5 sq mm dia Telephone Cables with High Density Polyethylene Insulation, Paired, Polyester and Sheathed with High Oxygen Index, Fire Retardant, PVC Compound, Grey Outer Sheath generally conforming ITD Specification. the scope of work inclusive of all fixing accessories & laying in a suitable ISI medium PVC conduit. The scope of work extends to Supply and Fixing of modular type RJ11 Telephone outlet with anodized GI box and front plate complete as required	Nos	15		
B	Supply, installation, testing & commissioning of 20 PairTelephone Krone DB in an MS powder coated enclosure in suitable location	Nos	1		
8	EARTHING				

A	COPPER EARTHING: Providing independent earthing for sophisticated electronic equipment with 600 mm x 600 mm x 3.5 mm thick copper plate rigidly fixed to 40 mm dia G.I. pipe of 3 mtr length connected with reducer providing .GI. funnel with wire mesh as per national electric code including C.C. Chamber of size 400 mm x 400 mm x 400 mm covered with RCC slab filling with salt and charcoal giving earth connection from electrode copper strip 2 runs of 50 mm x 6 mm x 3000 mm length with all accessories and labour charges complete,as per IS specifications 732(1982 (Part II)	Nos	2		
B	GI EARTHING: Providing independent earthing for important equipment with 40 mm dia "B" class 2.5m long G.I pipe and 19mm dia "B" class G.I pipe of 0.3 mtr. Long connected with reducer providing G.I. funnel with mesh enclosed in C.C. Chamber of 400mm x 400 mm x 400 mm with RCC slab cover duly providing staggered holes filling with salt and charcoal from the bottom of the pipe giving earth connection from electrode through G.I. strip 2 runs of 50 x 6 mm x 3000 mm length with all accessories and labour charges complete, as per IS specifications 732(1982 (part II)	Nos	2		
C	Supply and laying of 8SWG Cu insulated Wire in 20mm dia rigid pvc conduit For Body	Mtr	60		
D	Supply and laying of 8SWG GI insulated Wire in 20mm dia rigid pvc conduit For Body	Mtr	50		
E	Supply & Laying of 100mmX 25mmX 5mm Copper strip with supporting insulator and holes	Nos	2		
F	Supply & fixing of metal 32 A, 415 Volts Bus Bar chamber	Nos	1		
G	Supply & laying of 1nos6/16A Socket and 1nos 16A switch (Rawpower point switch and socket to be installed ina metal box) . The scope of work extends supply of 3 meter length of flexible 3core 2.5sqmm multi core copper cable one end connected to plug top 16A and the other connected to the SB inside and a suitable hook arrangment as required for hanging the cable required for Record rooms & Safe room, LOCKER room, Strong room, stationary room (Independent Circuits)	Nos	3		
H	Charges for making and submitting neat and clean computerised Electrical Drawing of the Branch indicating SLD of the Branch, indicating DB, switch boards, etc along with proper numbering and indicating power flow and laminating the same.	Nos	2		
	Total of Amount in figures (Excluding GST on works contract)				
	Part A: Total Amount				

	Part B: DATA Cabling Work				
1	Supplying and laying of approved make Cat - 6 category data cable as per requirement.	Mtr	450		
2	Supplying and fixing of Cat - 6 Category 1 mtr long data cable patch chords.	Nos	24		
3	Supplying and fixing of Cat - 6 Category 2 mtr long data cable patch chords.	Nos	24		
4	Supplying and fixing of cat 6, Rj - 45 single I/O point with face plate, box and all accessories and termination of wire in the data jack.	Set	20		
5	Supplying and fixing of Cat 6, Rj - 45 data dual I/O point with mounting box, face plate and all accessories and termination of wire in the data jack.	Set	4		

6	Supplying and fixing of 20 mm dia ISI mark, medium gauge Grey colour rigid PVC conduit pipe run on the surface of wall/ concealed type in the walls, floors or on the wooden interiors with all accessories using screws and pace plugs, complete with necessary chipping and making good of chipped portions as per requirement.	Mtr	150		
7	Supplying and fixing of 25 mm dia ISI mark, medium gauge Grey colour rigid PVC conduit pipe run on the surface of wall/ concealed type in the walls, floors or on the wooden interiors with all accessories using screws and pace plugs, complete with necessary chipping and making good of chipped portions as per requirement.	Mtr	150		
8	Labour charges for Installation existing networking switch in the new network rack, router, patch panel, termination of data cable in the networking rack complete with all requirements testing and commissioning of networking rack.	Set	1		
9	Supplying and Installation 9 U Networking rack with glass door and lock along with 24 port patch panel of the make approved by the Bank with power strip with surge protector, wire manager, wiring raceways, termination of data cable in the networking rack complete with all requirements	Set	1		
	Part B: Total Amount				
	Total Work Amount (Part A + Part B)*				

*All prices quoted above are exclusive of GST