

**BILL OF QUANTITIES / ESTIMATE FOR ELECTRICAL WORK OF
KELANAGAR**

(Including ATM)

S.NO	Description of items	Quantity	Unit	Rate	Amount in RS
1	Light & Fan point				
	Supply and fixing of light & Fan points with 2No.s of 1.00 Sq. mm PVC insulated copper Conductor cable in Pvc Conduit and PVC accessories like bend, J- Box, MS box, suitable sheet, 5Amp. One way switch modular type plate and accessories (shocket 5 pin 6 Amp for light plug point) fixing the pipe and with chasing of wall and making it good with cement mortar 1:5. Some points may require ceiling rose or baton holder with 2 nos. of 2.50 sqmm and one no. of 1.0 sqmm copper conductor cable from L & F DB to switch board as submain wiring complete in all respect including connection, testing and commissioning etc. complete.	69	No.s		
2	Power point				
	Supply and fixing of power points with MS Box, sheet and 16 Amp. Switch & 6A switchmodular type plate and accessories and shocket 1 no. 16A & 1 no. 6A making with chassing of wall and making it good with cement mortar 1:5, with 2 nos. of 2.50 sqmm and one no. of 1.0 sqmm copper conductor cable from DB to power point as submain wiring complete in all respect including connection and testing, PVC conduit etc.				
a)	Primary point	6	No.s		
b)	Secondary point	3	No.s		
3	Telephone point				
	Supply and Fixing 1 No. of Telephone shocket moduder type with MS Box and suitable sheet, PVC conduits and PVC accessories including chassing of walls and making it good with cement mortar 1:5 including one no. of 3 pair telephone wire with connection and testing etc. complete. Item shall include wiring with RJ11 socket from source to RAH electrical panel room.	2	No.s		
4	UPS point				
	Supply and Fixing UPS, output terminal Box with modular type 1 No. of 16 Amp 6 pin socket and 2 No.s of 6 Amp. 5 pin shocket, 1 No. of 6 Amp. Switch with suitable sheet and MS box (PVC Box) making with chassing of walls and making it good with cement mortar including 2 nos. of 2.50 sqmm and one no. of 1.0 sqmm copper conductor cable from DB to UPS point as submain wiring connetction, testing etc. complete.The item shall also include the supply and fixing of conduit, etc. wherever chasing not possible.				
a)	Primary point	10	No.s		
b)	Secondary point	4	No.s		
	Wiring				

5	Supply and fixing of 2 No.s of 2.50 Sq. mm one no. of 0.75 sqmm PVC insulated copper conductor wires in and including PVC conduit fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. complete for glow sign board etc.	25	Rmt.		
6	Supply and fixing of 2 No.s 6.0 Sq. mm and 1 No. of 2.50 Sq mm PVC insulated copper conductor wires in and including PVC conduit fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. complete for Light & fan DB circuits, UPS incomer wiring, main connection wiring etc.complete.	35	Rmt.		
7	Supply ,fixing ,testing, commissioning of PVC insulated copper conductor 4x10.0 sqmm. Industrial cable with end to end connection from Meter to panel and panel to TPN DB.	60	Rmt.		
	Distribution Board (All MCB's shall be C-curve)				
8	Supply and Fixing of 12 way SPN DB MS painted factory fabricated with 1 No. of 32 Amp DP MCB and 10 No.s of 6 - 32 Amp SP MCB complete with connection , testing, complete for UPS out put circuits.	1	No.s		
9	Supply and Fixing 2 way DB with 1 No.s of 40Amp. DP MCB for UPS incomer & outgoing complete with connection and testing etc.	4	No		
10	Supply , fixing, of 2 Nos. of 6 to 32 Amp. SP MCB with 2 way SPN DB for glow sign board and out side general light ATM, Power / AC supply.	1	No.s		
11	Supply and fixing of 4 way SPN DB with 4 No.s of SP MCB for CC camera point, rack point etc.	1	Nos		
12	Supply, fixing, testing and commissioning of 4 way TPN MCB DB factory fabricated with 12 Nos. of 6-32 Amp SP MCB and 1 Nos. of 63 Amp. TPN MCB for AC, L&F, Power points.	2	Nos		
	Fixture & Fittings				
13	Supply , fixing, testing and commissioning of 1200 mm sweep ceiling fan of crompton Grieves make , (high speed modle, Al. blade), 70 watts input power, 370 RPM, air delevry of 230CuM/Min with socket step type regulator etc. complete. (fan rod size as per site requirement)	10	No.s		
14	Same as above but 900mm ceiling fan.	2	No.s		
15	Supply & fixing of 7 watt. LED bulb of approved make with batten holder.	5	No		
16	Supply , fixing, testing and commissioning of 1 x 18 watt surface mounted LED Light Fitting with 1 No. of complete. The item shall include hanging arrangements with all accessories, if required.	11	No.s		

17	Supply , fixing, testing and commissioning of 600mm X 600mm 40 watt recessed type high performance decorative LED luminaries. (PHILIPS Cat Ref.RC380B LED36S -6500 G5 L60 W60 PSU or equivalent).	20	No.s		
18	Supply, fixing, testing and commissioning of 400 mm sweep wall fan of crompton Grieves make (hi-flow wave module), 50 watts input power, 1300 RPM, air delivery of 60 CuM/Min.	10	No.s		
19	Supply , fixing, testing and commissioning of 300mm dia exhaust fans.	2	No.s		
20	Supply , fixing, testing 10 Watt LED down lighter with electronic driver.	11	No.s		
	Earthing				
21	Supply , fixing, testing and commissioning of Earthing electrode with suitable digging and back fill compound (use 50 L Ishan make electrode & back fill compound) 1 for Neutral earth of UPS 1 for computer Earthing and 1 for Branch Body Earth.(Using 2 Nos. of existing earthing).	3	No.s		
22	Supply and fixing of 25X3 MM G.I. strip from earth pit to Main board.	20	RMT		
23	Main panel :- Designing , manufacturing , installation , testing & commissioning of cubical type panel made from 16 SWG CRCA sheet (with MS chanel) for grouting on walls/ floor) complete with MCCBS , MCBs , Meter etc. complete in all respect , insulated bus bar with heat shrinkable PVS sleeve in suitable bus bar chamber , wiring name plate, danger plate , earth bus bar etc . comprising of compartment with hinged doors and rubber gas kit , bus bar chamber with bolted doors and rubber gas kit etc. the panel shall be of dust and vermin proof construction and to be painted primer and smoke grey paint in two coats . The panel should be comprises of following - (Degree of protection IP - 54)				

	INCOMER				
	100 Amp 4 pole MCCB with shunt trip coil	1			
	Voltameter with push switch	1			
	R - Y - B phase indicator set	1			
	OUTGOING				
	200 amp. Electrolytic aluminium bus bar	1			
	200 amp , 4 pole on load change over for branch L&F + power point, branch UPS	1			
	63 amp TPN MCB	2			
	40 amp TPN MCB	1			
	63 AMP D P MCB	3			
	Complete one job as per above description	1	Job		
	Networking				
24	Dismantelling, refixing, connecting & testing of existing eathernet switch .	1	Job		
25	Supply, fixing, testing and commissioning of patch cord 2.0 M D- link make.	16	Nos		
26	Supply, fixing, testing and commissioning of 1 No. of Info. Outlet box with PVC box, surface plate and RJ45 connector along with Cat 6E cable in suitable PVC conduits from networking rack to I.O.	16	Nos		
27	Supply, fixing, testing commissioning of 600mm depth 12 U rack with all accessories like power strip, ventilation fan, cable manager, two no.s tray etc complete.	1	Nos		
28	Supply , fixing, testing and commissioning of 2mm thk electrical insulation rubber mat of size 1m X 1m.	1	Sq.m		
29	Supply , fixing, testing and commissioning of 3 nos. 200 amp. Fuse cut out with neutral link on wooden board for electrical main.	1	set		
30	Supply , fixing, testing and commissioning of AC box with socket, Plug top and SPMCB with 2 nos. of 4.00 sqmm and 1 nos. of 2.50 sqmm copper ind. Cable with suitable PVC conduit.	8	No.s		
		Total in Rs			
		GST @ 18%			
		Grand Total inclusive GST			