BILL OF QUANTITIES / ESTIMATE FOR ELECTRICAL WORK OF RAH, MATHURA.

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 (shoket 5 pin 6 Amp for light plug point) fixing the pipe and with chasing of wall and making it good with cement mortor 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.				
		47	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 mortor 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	9	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 mortor 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.		No.s		
	100m.	O	140.5		
4	UPS point				
	or a baum				1

	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 mortor 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	11	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 chassing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. compete 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 chassing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. compete for Light & fan DB circuits, UPS incomer wiring, main connection wiring etc.complete.	55	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 incommer complete with connection and testing etc.	2	No	
10	Supply , fixing, of 2 Nos. of 6 to 10 Amp. SP MCB with 2 way SPN DB for glow sign board and out side general ligh.	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	

				ı	1
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.	3	Nos		
	MCB for AC, E&F, FOWER POINTS.		1403		
	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 delevery of				
	230CuM/Min with socket step type regulator				
	etc. complete.(fan rod size as per site	_			
	requirement)	3	No.s		
14	Same as above but 900mm ceiling fan .	1	No.s		
<u> </u>	carrie as above bor rooming ran.				
1.5	Supply & fixing of 7 watt. LED bulb of approved				
15		-			
	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.				
	landingerneriis wiin all accessories, ii requilea.	7	NI.		
		7	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				
		10	Na		
	or equivalant).	18	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 delevery of 60 CuM/Min.				
	Perior, recent rin, all delevery of ea convi, min.	8	No.s		
			140.3		
19	Supply , fixing, testing and commissioning of				
	300mm dia exhuast fans.	3	No.s		<u> </u>
20	Supply , fixing, testing 9 Watt LED down lighter				
	with electronic driver.	15	No.s		
	Will Glocifolife differ.	.0	110.3		
	F				
	Earthing				
21	Supply , fixing, testing and commissioning of				
	Earthing electrode with suitable digging and				
1	back fill compound (use 50 L Ishan make				
1	electrode & back fill compound) 1 for Neutral				
	earth of UPS 1 for computer Earthing and 1 for				
	· · · · · · · · · · · · · · · · · · ·				
1	Branch Body Earth.(Using 2 Nos. of existing	_	l		
	earthing).	3	No.s		
22	Supply and fixing of 25X3 MM G.I. strip from				
1	earth pit to Main board.	30	RMT		
				!	+

23	Main panel: Designing, manufacturing, installation, testing & commissioning of cubical type panel made from 16 SWG CRCA sheat (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 slleve in suitable bus bar chamber, wirring name plate, danger plate, earth bus bar etc. comprasing 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	1		
	100 Amp 4 pole MCCB with shunt trip coil	1		
	Voltameter with push switch R - Y - B phase indicator set	1		
	OUTGOING	1		
	200 amp. Electrolytic alumium bus bar	1		
	200 amp, 4 pole on load change over for			
	branch L&F + power point, branch UPS	1		
	63 amp TPN MCB	4		
	40 AMP D P MCB	2		
	Complete one job as per above description	1	Job	
L	Networking			
24	Supply, fixing, connecting & testing of 16 port	1	NI	
	eathernet switch D-link make.	1	No.s	
25	Supply, fixing, testing and commissioning of			
25	patch cord 2.0 M D- link make.	12	Nos	
	paich cold 2.0 M B- link make.	12	1103	
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.	13	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	1	Sam	
	1m X 1m.	ı	Sq.m	
29	Supply , fixing, testing and commissioning of 3			
-	nos. 100 amp. Fuse cut out with neutral link on			
	wooden board for electrical main & generator			
	each.	2	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.				
		6	No.s		
	Add contigencies @ 5%				
			GST @ 18 %		
			G. TOTAL		
			Say Rs		