

BILL OF QUANTITIES FOR ELECTRICAL WORK OF BO:					
SME SULABH, ALIGARH (ALIGARH AMU-II).					
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 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.	59	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 chasing 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 (1 Circuit controlled 1 power)	7	No.s		
b)	3 power controlled by 1 circuit in loop (Three points to be counted as one set)	3	Set		
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 chasing 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.	5	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 chasing 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)	1 ups point controlled by 1 circuit	6	No.s		
b)	4 ups point controlled by 1 circuit in loop (Four points to be counted as one set)	2	Set		
	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.	10	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.	150	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 with 2 nos of 2.50 sq. mm earth copper wire.	70	Rmt.		
	Distribution Board (All MCB's shall be C-curve)				
8	Supply and Fixing of 12 way SPN DB MS painted factory fabricated double door type 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		
12	Supply, fixing, testing and commissioning of 4 way TPN MCB DB factory fabricated double door type with 12 Nos. of 6-32 Amp SP MCB and 1 Nos. of 63 Amp. TPN MCB for AC, L&F, Power points.	1	Nos		
	Fixture & Fittings				
13	Supply , fixing, testing and commissioning of 1200 mm sweep ceiling fan of crompton Grieves make, 70 watts input power, air delevry of 230CuM/Min with step type regulator etc. complete. (fan rod size as per site requirement)	9	No.s		
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.	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 or equivalant).	9	No.s		

19	Supply , fixing, testing and commissioning of 225/300mm dia exhaust fans.	2	No.s		
20	Supply , fixing, testing 10 Watt LED down lighter with electronic driver.	10	No.s		
	Networking				
25	Supply, fixing, testing and commissioning of patch cord 2.0 M D- link make.	13	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.	13	Nos		
28	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. Fronmm AC DB to AC Cable with suitable PVC conduit.	4	No.s		
				Total	
				GST @ 18 %	
				G. TOTAL	
	BILL OF QUANTITIES / ESTIMATE FOR ELECTRICAL WORK OF BO:				
	AMU-II , ALIGARH.				
	(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 (shoket 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.	51	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 (1 Circuit controlled 1 power)	4	No.s		
b)	3 power controlled by 1 circuit in loop (Three points to be counted as one set)	3	Set		
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.	5	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 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)	1 ups point controlled by 1 circuit	4	No.s		
b)	4 ups point controlled by 1 circuit in loop (Four points to be counted as one set)	2	Set		
	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.	35	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.	60	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 with 2 nos of 2.50 sq. mm earth copper wire.	50	Rmt.		
	Distribution Board (All MCB's shall be C-curve)				
8	Supply and Fixing of 12 way SPN DB MS painted factory fabricated double door type 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 63Amp. DP MCB for UPS incommer & 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, UPS lighting DB.	6	No.s		
11	Supply and fixing of 4 way SPN DB with 4 No.s of SP MCB double door type for CC camera point, rack point ATM ups points.	2	Nos		
12	Supply, fixing, testing and commissioning of 4 way TPN MCB DB factory fabricated double door type 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, 70 watts input power, air delevry of 230CuM/Min with step type regulator etc. complete. (fan rod size as per site requirement)	12	No.s		
14	Same as above but 900mm ceiling fan.	6	No.s		
15	Supply & fixing of 7 watt. LED bulb of approved make with batten holder.	2	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.	9	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).	17	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 delevry of 60 CuM/Min.	2	No.s		

20	Supply , fixing, testing 10 Watt LED down lighter with electronic driver.	19	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.	3	No.s		
22	Supply and fixing of 25X3 MM G.I. strip from 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 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				
	200 Amp 4 pole MCCB with shunt trip coil	2			
	300 Amp 4 pole on load change over	1			
	Voltameter with push switch	3			
	R - Y - B phase indicator set	1			
	OUTGOING				
	350 amp, Electrolytic aluminium bus bar	1			
	63 amp TPN MCB	5			
	40 amp TPN MCB	2			
	63 AMP D P MCB	6			
	Complete one job as per above description	1	Job		
	Networking				
24	Dismantelling, refixing, connecting & testing of existing ethernet switch .	1	Job		
25	Supply, fixing, testing and commissioning of patch cord 2.0 M D- link make.	14	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.	14	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 AC box with socket, Plug top and SPMCB with 2 nos. of 4.00 sqmm and 1 nos. of 2.50 sqmm copper ind. From AC DB to AC Cable with suitable PVC conduit.	7	No.s		
				Total	0.00
			GST @ 18 %		
			G. TOTAL		
	FOR ARDECO				
	(R.K.DWIVEDI)				
	Architect.				