

BILL OF QUANTITY OF ELECTRICAL WORKS N/W: PROVIDING ELECTRICAL WORKS FOR INDIAN BANK, JAWAHARLAL ROAD BRANCH AND ATM					
BRANCH					
A	SUB HEAD-I (WIRING)				
B	SUB HEAD-II (DISTRIBUTION BOARDS & PANELS)				
C	SUB HEAD-III (SUPPLY OF FIXTURES & FANS)				
D	SUB HEAD-IV (SUPPLY OF CABLE MAIN & SUBMAIN)				
E	SUB HEAD-V (SUPPLY & MAKING OF EARTHPIES)				
F	SUB HEAD - VI (ATM WORK)				
TOTAL-					
GST AS APPLICABLE					
SL. NO.	ITEM OF WORK	UNIT	QTY	RATE	AMOUNT
SUB HEAD - I (WIRING)					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq mm FR PVC insulated copper condtr single core cable in surface/ recessed PVC conduit with modular switch, modular plate, suitable GI box and earthing the 3rd point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc as required.				
a	1 Light control & ,ceiling fan ,exhaust fan by 1 switch	Each	30		
b	2 Light control by 1 switch	Each	12		
c	Wall fan point for Customer Area with 6A 2/3 pin modular socket & 5/6 amps modular switch	Each	14		
2	Wiring for Inverter light / wall fan point with 1.5 sq mm FR PVC insulated copper condtr single core cable in surface/ recessed PVC conduit with modular switch, modular plate, suitable GI box and earthing the 3rd point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc as required.	Each	18		
3	Wiring for A.C. Point with 2 x 4 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	140		
4	Wiring for Light D.B. CKT with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	21		
5	Sub main Wiring between UPS to UPS feed DB with 2 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 1X 6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	20		
6	Wiring for RAW Power with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	22		
7	Sub Main Wiring from LT Panel to UPS Panel with 4 x 10 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	25		



8	Wiring for UPS and RAW feed computer point with 2 x 2.5 sqmm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. (3 outlets, i.e 3 points each with 1 switch and 3 sockets shall be under one circuit	Mtr.	395		
9	Light Circuit wiring with 2 x 2.5 sqmm FRLS PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	150		
10	15A/16A Power point Circuit wiring with 2 x 2.5 sqmm FRLS PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	40		
11	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 5 pin 5/6 amp modular socket outlet and 5/6 amps modular switch, connection, painting etc as reqd.	Set	7		
12	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 6 pin 15/16 amp modular socket outlet and 15/16 amps modular switch, connection, painting etc as reqd.	Set	4		
13	Supply & fixing remote controlled call bell buzzer suitable for 230 V AC/ Battery operated with remote type bell push as reqd.	nos.	1		
14	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with modular type switch for UPS Power and 2 no. 5 pin 5/6 amp modular socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box. As per instruction of Bank/Elc.Er./as required.	nos.	13		
14A	Supply & fixing of UPS point for cctv ,networking and fire alarm with 3 no. 5 pin 5/6 amp ,1no. 5 pin 15/16 amp modular socket with modular type switch for UPS Power with modular type switch phenolic laminated sheet suitable size PVC/G.I. box. As per instruction of Bank/Elc.Er./as required.	nos.	3		
15	Supply & fixing AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd.	Set	7		
16	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-45 socket etc complete in all respect including cat-6 Data cable conduits, identification of the hub				
	a) RJ-45 socket	Set.	14		
	b) Cat-6 Data cable with PVC conduit	Mtr.	405		
17	Supply & fixing of approved make including square face plate and				
	a) RJ-11 socket	Set.	0		
	b) Supplying and drawing 2 pair 0.5 sqmm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/PVC conduit as required.	Mtr.	0		
18	Supplying and drawing fixing 8 SWG copper conductor wire for loop earthing as required.	Mtr.	30		
19	Supply & fixing Commissioning of 20 line Net-working hub all complete as required.	Set.	1		
20	Supply & fixing Commissioning of 2 Meter Patch Cord as required, all complete as per requirement.	Set.	15		



21	Supplying and drawing 2X2.5 sqmm size of FR PVC insulated copper conductor, single core cable in the existing surface/recessed PVC conduit as required. - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. (Invertor wiring)	Mtr.	170		
22	Wiring for main line input & Output for Invertor charging with 3x4sqmm copper wire	Mtr.	22		
23	Supply & fixing of Input output for Invertor having overload protection starter, one no 20/25 amp SPN MCB and socket outlet,	Set	2		
24	Supply & fixing of following sizes of PVC conduit along with				
	a) 20 mm	Mtr.	20		
	b) 25 mm	Mtr.	25		
	TOTAL SUB HEAD-I				
SUB HEAD - II (DISTRIBUTION BOARDS & PANELS)					
1	Supplying & Fixing following ways three pole and neutral sheet steel MCB DB, 415 volts on surface/ recessed complete with tinned copper busbar, neutral busbar, earth bar din bar detachable gland plate interconnections, phosphatised and powder painted i/c earthing etc as reqd. (But without MCB / RCCB/Isolator)				
a	4 Way double door VTPN DB.	Each	1		
b	16 Way double door SPN DB.	Each	2		
b	12Way double door SPN DB. (Invertor wiring)	Each	1		
2	Supply & fixing 5 amps to 32 amps rating 240 V 'C' series MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
a	10/16 A 10 KA SP MCB "B"	Each	39		
b	63 A 10 KA FP MCB "C"	Each	1		
c	40A 10 KA DP MCB	Each	2		
3	Supply & fixing of indoor cubicle extensible type fully compartmentalized Distribution panel suitable for operation on 415 volts 50 Hz 3 phase 4 wire AC distribution system, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required (as per specifications of Panel attached)	Set	1		
	INCOMING:				
	a) 125 amp 4 pole MCCB not less than 25 KA having Thermo magnetic type release for a range of 80% to 100% for Overload and short circuit complete with rotary handle etc as reqd.: 1 no				
	b)63 amp 4 pole heavy duty I-II-I type cubicle changeover switch: 1 no				
	METERING:				
	a) Multifunctional meter displaying A/V/PF & Hz along with 3 nos				
	Suitable size CTs & HRC type protection fuse etc as reqd: 1 nos				
	c) LED type phase indication lamp in phase distinguishing colors with HRC fuse : 6nos				
	BUS BAR:				
	Main Bus Bar: 4 strip 200 amp bus bar made of electrical grade aluminium strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as reqd: 1 set				



	Emergency Load Bus Bar: 4 strip 150 amp bus bar made of electrical aluminium copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as reqd: 1 set				
	OUTGOINGS:				
	40 amp, 10 KA D Series FP MCB : 3 nos.				
	40 amp, 10 KA D Series DP MCB: 2 nos.				
	25 amp 10 KA C series SPN MCB: 8nos.				
	63 A rotary type Phase selector: 2 no				
	63 amp DP Manual Change Over For UPS Charging-1 nos.				
4	UPS PANEL				
	SITC of indoor cubicle type UPS panel suitable for operation on 415 volts 50 Hz, 3 phase 4 wire AC distribution system, AC supply, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required.				
	a) 63 amp Double pole MCCB 10KA as reqd.: 1 no				
	b) 6/10 A 10 KA SP MCB "B": 3 nos for NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM to be connected with required wiring with UPS output				
	WIRING				
	Wiring from by 6 sq. mm copper wire.				
	METERING:				
	a) Digital Volt meter displaying voltage with 1 nos HRC type protection fuse etc as reqd: 1 nos				
	UPS INPUT & OUT PUT				
	4 no 40 A SPN MCB 10KA with 4 no 40 amp Industrial type socket out let and Top with connection o/g MCB with PVC insulated copper conductor wire as required (For 2 no. main input and 1 no. output)	Set	1		
	TOTAL SUB HEAD-II				
SUB HEAD - III (SUPPLY OF FIXTURES & FANS)					
1	Supplying , installation, testing & fixing of 6W/9W LED batten suitable for indoor application.	Each	4		
2	Supplying , installation, testing & fixing of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as reqd.	Each	2		
3	Supplying , installation, testing & fixing of 36W LED (2'X2') surge protection LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd.	Each	18		
4	Supplying , installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 12/15 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required.	Each	24		
5	Supplying, installation, testing & fixing of 1X36 W tube light fitting powder coated batten with PC tube.	Each	8		
6	Supplying , installation, testing & fixing of Exhaust fan 300mm sweep HEAVY DUTY EXHAUST	Each	3		
7	Supplying, installation, testing & fixing of 1200 mm sweep energy efficient ceiling fan, connection with 1.5 sqmm PVC ins copper condtr, testing, commissioning etc as reqd.	Each	2		



8	Supplying, installation, testing & fixing of oscillating and tilting type Metal body wall mounted fan of 450 mm sweep, 80/100watt, 1300 to 1500 rpm, fixing the same on wall, connection with 1.5 sqmm PVC insulated copper conductor, testing, commissioning etc as required..	Each	12		
TOTAL SUB HEAD-III					
SUB HEAD - IV (SUPPLY OF CABLE MAIN & SUBMAIN)					
1	Supply & laying for sub main from L.T line & DG line following sizes and core PVC/XLPE insulated PVC sheathed, heavy duty, armored electrical cable with aluminum conductor for working voltage up to and including 1100 volts.(Conforms to IS:1554,part-1) with 8 no. SWG die bare copper conductor wire for loop earthing, proper laying on wall or roof, thumbnail clipping and use proper size cable gland for cable sport etc. as required. all complete as per instructions of Elec.Er. / Architect.				
	(i) 25 sq.mm, 3.5 core LT Cable	Mtr.	0		
	(ii) 35 sq mm,3.5 core LT Cable	Mtr.	35		
TOTAL SUB HEAD-V					
SUB HEAD - V (SUPPLY & MAKING OF EARTHPIITS)					
1	Earthing with CU earth plate 600mm x 600mm x 3 mm thick accessories and pdg masonry enclosure with cover plate having locking arrangement and watering pipe etc (but without charcoal or coke and salt) complete as required.	Set	3		
2	Extra for using charcoal and sal for copper earth plate electrode as required	Set	3		
3	Supply & fixing of wiring of 2X2.5 sq. mm +1*1 sq.mm eathing from main panel to glow sign board with pvc pipe and fittings etc. 16 A Dp mcb with timer.	Each	1		
4	Providing & laying earth connection from earth electrode with 4 mm dia copper wire in 15 mm dia. GI pipe from earth electrode as required.	Mtr.	40		
5	S/L 4 mm dia copper wire on surface or in recess as reqd.	Mtr.	20		
6	1 Light control by 1 DP OUTPUT OF DISTRIBUTION BOX/INVERTER WITH 5 W LED BULBS (COLOR-YELLOW,BLUE,RED,GREEN) -----Point wiring with 1100 V grade 3 nos. single core 1.5 sq.mm.FR and 1.5 sq.mm.for earth PVC insulated stranded copper conductor wire (IS:694) through suitable size PVC conduit (ISI marked)by thred cutting, complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or pipe from distribution box DP output side . The work includes 3 plate ceiling rose / angle or batten holder etc. as required. The point wiring is to be done from distribution box DP output to LED Bulb. One point wiring from Invertor Output to LED bulb.The location OF 5W BULB shall be near Main Entrance door and visible in CCTV camera. The rate shall be inclusive of 5W COLOR LED BULB.	Each	3		
7	Dismantle & Removal of all existing electrical items i.e. wiring,wall fans, ceiling fans lights, DB's, Main Panel etc.of Branch & ATM ,debris from site, carrying and disposal of malba to dumpyard. as per bank/branch incharge direction	Lumpsum	1		
TOTAL SUB HEAD-V					
SUB HEAD - VI (ATM WORK)					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq mm FR PVC insulated copper condtr single core cable in surface/ recessed PVC conduit with modular switch, modular plate, suitable GI box and earthing the 3rd point with 1.5 sqmm FR PVC insulated copper conductor single core cable etc as reqd.	Each	5		
2	Wiring for A.C. Point with 2 x 4 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	10		



3	Sub Main Wiring from LT Panel to ATM D.B. with 4 x 10 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	15		
4	Wiring for UPS fed computer point with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. (3 outlets, i.e 3 points each with 1 switch and 3 sockets shall be under one circuit	Mtr.	20		
5	Circuit wiring with 2 x 1.5 sqmm FR PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 1.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	15		
6	Supply & laying for Sub Main Wiring from LT Panel to ATM D.B. with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 1X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	15		
7	Supplying & Fixing(4 Way double door VTPN DB.) following ways three pole and neutral sheet steel MCB DB, 415 volts on surface/ recessed complete with tinned copper busbar, neutral busbar, earth bar din bar detachable gland plate interconnections, phosphatised and powder painted i/c earthing etc as reqd. (But with MCB / RCCB/Isolator)	Set	1		
8	S/F AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd.	Set	1		
9	S/F wiring 3no. 6 pin 15/16 amp modular socket with modular type switch, phenolic laminated sheet suitable size PVC/G.I. box from UPS power .	Set	2		
10	S/F of approved make including square face plate and M.S. housing box with RJ-45 socket etc complete in all respect including cat-6 Data cable conduits, identification of the hub				
	a) RJ-45 socket	Set.	2		
	b) Cat-6 Data cable with PVC conduit	Mtr.	50		
11	Supplying, installation, testing & fixing of 36W LED CRCA white powder coated housing with ABS plastic bottom frame with electronic driver duly wired up to the terminal block, luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic driver.As approved make by Electrical consultant/architect etc as reqd.	Each	1		
12	Supplying of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required.	Each	6		
13	Supplying, installation, testing & fixing of 1X36 W (TMS021 1XTL-D36-28W , MAKE-PHILIPS) tube light fitting powder coated batten with PC tube (1XTL-36W, MAKE-PHILIPS)	Each	1		
14	Earthing with GI earth plate 600mm x 600mm x 6 mm thick accessories and pdg masonry enclosure with cover plate having locking arrangement and watering pipe etc (but without charcoal or coke and salt) complete as required.	Set	1		
15	Extra for using charcoal and sal for GI / copper earth plate electrode as required (96 Kg charcoal & 5 Kg salt)	Set	1		
16	Providing & laying earth connection from earth electrode with 6 SWG dia GI wire in 15 mm dia. GI pipe from earth electrode as required.	Mtr.	15		
TOTAL SUB HEAD-VI					

