

ESTIMATE OF ELECTRICAL WORKS N/W: PROVIDING ELECTRICAL WORKS FOR INDIAN BANK ALLAHABAD BANK, RMPC BHAGALPUR					
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.	TOTAL SUB HEAD-V (SUPPLY & MAKING OF EARTHPITS)	-			
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 FR PVC insulated copper conductor single core cable etc as reqd.	Each	38		
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.	140		
3	Sub main for Light point Distribution Board with 4 x 4 sqmm FR PVC insulated copper conductor single core cable 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.	20		
4	Sub Main wiring from LT Panel to UPS Panel with 2 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with two no 6 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.			
5	Sub Main wiring from UPS Panel to UPS D.B. 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.	15		
6	Sub Main wiring from Main Panel to RAW D.B. 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.	0		
7	Wiring for UPS & RAW Power feed 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.	300		



8	Light Circuit wiring with 2 x 2.5 sqmm FR 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.	250						
9	Wiring for 15 amp power socket 2 x 4 sqmm FR PVC insulated copper conductor single core cable 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						
10	S/F 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	0						
11	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	5						
12	S/F 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	S/F remote controlled call bell buzzer suitable for 230 V AC/ Battery operated with remote type bell push as reqd.	nos.	0						
14	S/ITC 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/Ele.Er/as required.	nos.	9						
15	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.	16						
	b) Cat-6 Data cable with PVC conduit	Mtr.	270						
16	S/I/T/Commissioning of 2 Meter Patch Cord as required, all complete as per requirement.	Set.	16						
17	S/F of approved make including square face plate and M.S. housing box with RJ-11 socket etc complete in all respect including cat-6 Data cable conduits as required.								
	a) RJ-11 socket								
	b) 2 pair telephone wire from EPABX to telephone jack RJ-11 socket								
18	Supplying and drawing fixing 8 SWG copper conductor wire for loop earthing as required.	Mtr.							
19	Supplying, installation, testing & fixing of 16 line Net-working hub all complete as required.	Set.							
20	Supplying, installation, testing & fixing of 08 Line EPABX with two line telephone one set.	Each							
21	Supply and fixing of following sizes of PVC conduit along with accessories in surface/ recess i/c cutting the wall and making good the same in case of recessed conduit as								
	a) 20 mm	Mtr.							
	b) 25 mm	Mtr.							
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+16 Way double door TPN DB.	Each			
	b) 12 Way double door SPN DB	Each	2		
2	S/F 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) 6/10 A 10 KA SP MCB "C"	Each	20		
	b) 40 A 10 KA FP MCB "C"	Each			
	c) 40 A/ 32 A DP MCB "C"	Each	4		
	d) 63A/TPN MCB	Each	1		
3	SITC 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)				
3A	INCOMING:				
	a) 100 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				
3B	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 indicating lamp in phase distinguishing colors with HRC fuse : 6nos				
3C	BUS BAR:				
	Main Bus Bar: 4 strip 150 amp bus bar made of electrical grade 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				
	Emergency Load Bus Bar: 4 strip 150 amp bus bar made of electrical grade 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				
3D	OUTGOINGS:				
	a) 40 amp, 10 KA D Series FP MCB : 1 nos.				
	b) 40 amp, 10 KA D Series DP MCB: 3 nos.				
	c) 25 amp 10 KA C series SPN MCB: 5 nos.				
	d) 63 A rotary type Phase selector: 2 no				
	e) 63 amp, 10 KA D Series DP MCB : 1 nos.				
	f) 63 amp main switch with 63 amp change over	Set	1		
4	S/I/T/Commissioning of UPS PRIMARY & SECONDARY consist of:-25 Amps and 32Amps DP MCB with 2 Nos 32Amp power socke in MS Enclosure Box as required, all complete as per instructions of Bank / Architect.	Set	0		
TOTAL SUB HEAD-II					



SUB HEAD - III (SUPPLY OF FIXTURES & FANS)					
1	Supplying, installation, testing & fixing of LED PHILIPS / approved equivalent. SURFACE MOUNTING light	Each	10		
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	0		
3	Supplying, installation, testing & fixing of 36 W LED, edge-lit luminaire suitable for 2'x2' armstrong ceiling and grid ceiling complete with separate electronic Driver. and equivalent of approved make by architect etc as reqd.	Each	15		
5	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	0		
6	Supplying, installation, testing & fixing of Exhaust fan 300mm sweep HEAVY DUTY EXHAUST make-CROMPTON / approved equivalent.	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	1		
8	Supplying, installation, testing & fixing of oscillating and tilting type wall bracket fan of 400 mm sweep i/c fixing the same on wall, connection with 1.5 sqmm PVC insulated copper conductor, testing, commissioning etc as required.	Each	8		
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) 35sq mm, 3.5 core (L.T. Main)	Mtr.			
	(ii) 16sq mm, 4core (D.G Main)	Mtr.			
TOTAL SUB HEAD-IV					



SUB HEAD - V (SUPPLY & MAKING OF EARTHPITS)						
1	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	0			
2	Extra for using charcoal and sal for GI / copper earth plate electrode as required (96 Kg charcoal & 5 Kg salt)	Set	0			
3	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.	0			
4	S/L 6 SWG G.I.wire on surface or in recess as reqd.	Mtr.	0			
5	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	0			
6	Extra for using charcoal and sal for GI / copper earth plate electrode as required	Set	0			
7	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.	0			
8	S/L 4 mm dia copper wire on surface or in recess as reqd.	Mtr.	0			
TOTAL SUB HEAD-V						
					Total:-	

