



BOQ FOR ELECTRICAL INSTALLATION WORKS AT FOURTH FLOOR OF LHO PATNA BUILDING

PRICE BID		ANNEXURE-III			
SL. NO.	ITEM OF WORK	UNIT	QTY	RATE (Excluding GST)	AMOUNT (Excluding GST)
SUB HEAD - I (WIRING)					
1	Point wiring with 1100 V grade 2 nos. single core 1.5 sq.mm.FR and 1 nos 1.5 sq.mm.FR 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 concealed by chase cutting on wall from light & fan switch board to light, fan & 6A socket outlet on the same switch board or separately mounted switch board. The work includes supply and fixing of all materials such as modular type 6A switch for light and fan point, 6A 2/3 pin shuttered socket outlet with switch in each switch board for wall fan , 3 plate ceiling rose / angle or batten holder etc. as required. The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm.FR + 1 no. single core 2.5 sq.mm.FR PVC insulated stranded copper conductor cable (IS:694) through suitable size PVC conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting etc. (maximum ten switch for one circuit)				
a	1 Light control & ,ceiling fan ,exhaust fan by 1 switch	Each	12		
b	2/3 Light control by 1 switch	Each	10		
c	Wall fan point with 6A 5 pin modular socket & 5/6 amps modular switch (3 pin type)	Each	49		
2	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	49		
3	Supply & fixing AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB / rcpb and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd. With 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 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required	Each	2		
4.a	Sub Main Wiring from LT Panel to Light D.B, from LT Panel to UPS charging & UPS Panel to UPS D.B. with 2 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / MS Casing - n Capping along with 1 x 6 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. The rate should be quoted considering wastage. The measurement shall be taken to the place where the wire start and end.	Mtr.	135		
4.b	Sub Main Wiring from LT Panel to Light D.B, from LT Panel to UPS charging & UPS Panel to UPS D.B. with 2 x 10 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / MS Casing - n Capping along with 1 x 10 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. The rate should be quoted considering wastage. The measurement shall be taken to the place where the wire start and end.	Mtr.	195		

SL. NO.	ITEM OF WORK	UNIT	QTY	RATE (Excluding GST)	AMOUNT (Excluding GST)
4.c	Sub Main Wiring from LT Panel to Light D.B, from LT Panel to UPS charging & UPS Panel to UPS D.B. with 3.5/4 32 Sq. mm Armoured Au Cable on surface FR PVC insulated Au conductor 3.5/4 core cable for loop earthing as required. The rate should be quoted considering wastage. The measurement shall be taken to the place where the wire start and end.	Mtr.	50		
5	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. with 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 1.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. With. The FIXING SHOULD BE AT height 1 ft 6 inch from the floor. Blower Point-6,Water Point-1	Each	4		
6	Supply & fixing remote controlled call bell buzzer suitable for 230 V AC/ Battery operated with remote type bell push as reqd.	nos.	2		
7.a	Supply & fixing of computer point with 3 no. 5 pin 6/10 amp modular socket with modular type switch for UPS Power phenolic laminated sheet suitable size PVC/G.I. box for UPS Power. As per instruction of Bank/Ele.Er./as required including their wiring for UPS Power socket for computer 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.	Each	120		
7.b	Supply & fixing of computer point with 2 no. 5 pin 16/20 amp modular socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box for RAW Power. As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for computer 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.	Each	120		
8	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with 1 nos 15 amp modular type switch for UPS Power. As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM 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. The circuit wiring is to be done from UPS PANEL till the location of NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM & connected to 6/10amp mcb mentioned in SUB HEAD II point no-4.	Each	3		
9	Supply & fixing of approved EPBAX and Phone make including square face plate and M.S. housing box with RJ-11 socket etc complete in all respect conduits as required.(Each Section Head work station have 2 no. of RJ 11 Socket) with Supplying and drawing 2 pair 0.5 sqmm FR PVC insulated annealed copper conductor, unarmored telephone cable in PVC conduit as required.	Each	120		
10	Supply & fixing of 10pairs MDF box with crone termination	Each	2		
11	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		

SL. NO.	ITEM OF WORK	UNIT	QTY	RATE (Excluding GST)	AMOUNT (Excluding GST)
12	Supply & fixing Of 15 Amp Modular Switch & Socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box along with 15 TOP outside Strong Room. The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm.FR + 1 no. single core 1.5 sq.mm.FR PVC insulated stranded copper conductor cable (IS:694) through suitable size PVC conduit from this box to strong room switch board. The wiring from light DB to this box is already included in point wiring description.	Each	17		
13	Supply & fixing of approved make LAN/ Networking Cabling with GBPS Switch and Suitable Rack, patch cable and Cable manager including square face plate and PVC housing box with RJ-45 socket etc complete in all respect conduits/ trunking (if Floor in MS and if surface in MS/ PVC as required.(Each Section Head work station have 2 no. of RJ 45 Socket) rest work station/ Printer Location/ Biometric point - each 1 RJ 45 Socket with complete Set with Supplying and drawing/ layinh with CAT 6 copper unarmored cable in PVC conduit/ Trunking, if in Floor then MS Trunking as required.	Each	130		
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	24 way double door RCB, SPN DB. FOR UPS - 1 DB , RAW Power LIGHT DB -1 DB each wing	Each	12		
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) 6/10 A 10 KA SP MCB "B"	Each	250		
	b) 40/63 A 10 KA DP MCB "C"/ RCB	Each	12		
	C) 63/100 A 10 KA 4P MCB "C" with Suitable MS Box/ Casing	Each	7		
TOTAL SUB HEAD-II					
SUB HEAD - III (SUPPLY OF FIXTURES & FANS)					
1	Supplying, installation, testing & fixing of 9W LED BULB WITH batten HOLDER suitable for indoor application. 5 star Rating	Each	10		
3	Supplying, installation, testing & fixing of 2'X2' 36W LED Panel light CRCA white powder coacted 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. 5 star Rating Branded	Each	15		
4	Supplying, installation, testing & fixing 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. 5 star Rating	Each	25		
5	Supplying, installation, testing & fixing of 1X36 W LED tube light fitting powder coated batten with PC tube 5 star Rating	Each	10		
6	Supplying, installation, testing & fixing of Exhaust fan 300 mm sweep HEAVY DUTY EXHAUST make- CROMPTON / approved equivalent. (UPS ROOM, TWO TOILETS)	Each	3		

SL. NO.	ITEM OF WORK	UNIT	QTY	RATE (Excluding GST)	AMOUNT (Excluding GST)
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	49		
	TOTAL SUB HEAD-III				
SUB HEAD - IV (SUPPLY & MAKING OF EARTHPIITS, REMOVING OF ITEMS, RUBBER MAT)					
1	Providing chemical/mineral maintenance free earthing system comprising of copper coated earth electrode 3 metre length and 50 mm outer dia along with 50 kg earth conductivity enhancing back fill mineral compound for earth inspection pit etc. as required. OR Earthing with copper earth plate 600 mm X 600 mm X3 mm thick including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc.with charcoal / coke and salt as required.	Set	3		
2	S/L 4 mm dia copper wire on surface or in recess as reqd.	Mtr.	266		
3	High voltage insulation rubber mat are relatively thin mats of thicknes 10mm made of elastomeric polymers materials having a high insulation restance, thus imparting total safety of human being from any leakage current.(UPS Room)	Sqft	12		
	TOTAL SUB HEAD-IV				
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 & MAKING OF EARTHPIITS, REMOVING OF ITEMS, RUBBER MAT)				
GRAND TOTAL-					
	G.S.T(Extra as applicable)				
NOTE:-					
1. The Circuit wiring of Switch board in Strong Room is to be connected through 15 AMP top outside strong room with					
ALARM SYSTEM is to be done from UPS Panel.					
DB'S should be done.					
4. Vendor has to quote final rate after discount/less.					
5. AS PER DIRECTIVES OF MINISTRY OF ENERGY -LED LIGHTS , CEILING FANS MANDATORILY SHOULD BE 5 STAR RATING APPLIANCES. VENDOR SHOULD QUOTE THE RATE FOR 5 STAR RATING APPLIANCES ONLY.					
6. CONTEGENCIES CAN BE TAKEN AS 5-10% OF THE TOTAL PROJECT COST					