

**RENOVATION OF CHAKTENTIAL BRANCH WITH ATM
BOQ FOR ELECTRICAL INSTALLATION WORKS**

SL.No.	ITEM DESCRIPTION	Unit	Qty.	Rate (Rs)	Amount (Rs)
1	Supply and installation(Concealed) of Double door 4way VTPN DB with MCCB having breaking capacity of 16 KA with a) incoming- 1 No of 63A,4P MCCB b)outgoing - 5 Nos. of 32 A SP MCB (C series) with Necessary blanking plate as required. for AC DB	Nos.	1		
2	Supply and installation(Concealed) of Double door 6way VTPN DB with MCCB having breaking capacity of 16 KA. with a) incoming - 01 No of 100A, 4P MCCB b) outgoing - 04 Nos. of 25/32 A SP MCB(C series) and 02 No. of 40A SP MCB(UPS input), 1 No. of 40A TP MCB with Necessary blanking plate as required.(As per IS8828-96Latest)" for MAIN DB (DG backup)	Nos.	1		
3	S& F 40 amps 4P MCB C series in metal enclosure including interconnection with suitable size of copper wire) for master control lighting & Raw Power.	Nos.	2		
4	Supply and fixing of TPN MCB DB (Double door) with following accessories : a) 1 No. of 40A TP MCB as incomer b) 6 nos 16A SP MCB , 3 Nos. of 40A SP MCB for Lighting & Raw power points.	Nos.	1		
5	Supply and fixing of SPN MCB DB (Double door) with following accessories : a) 1 No. of 40A, 100 mA DP RCBO as incomer b) 4 nos 10A SP MCB (Lighting DB)	Nos.	1		
6	Supply & installation(concealed) of double door 12way SPN MCB DB with following accessories a)1 No. 40 amp. 100 mA DP RCBO as incomer b) 4 Nos. 16 A SP MCB (Computer/Raw power DB)	Nos.	4		
7	Supply & fixing on wall industrial Plug & socket DB in metal enclosure with one 40 Amps industrial socket (P+N+E) but with 40 Amps SP MCB duly inter connected.(UPS output)	Nos.	6		
8	Supply,installation and commissioning of 1 No. of double door type. MCCB DB with 63 A MCCB at incomer and 2 Nos. of 40A MCB at outgoing for UPS input, 2 No. of 32 A MCB for Air-conditioner and 1 No. of 16 A SPMCB for light circuit.	Nos.	1		
9	Supply & Installation (AC-Timer DB) of 4 hours automatic power switching controller for AC with electronic timer and manual in double door powder coated MS box. Regulate cyclic operation of 2 AC, should include: 32A DP 100mA RCBO, electronic timer QT31, 2No's 3P contactor, 2 No's 20A DP MCB, 2 No's modular switch, 2 indicator.	Nos.	1		
10	Supply & installation of 1.1 KV Grade PVC insulated and sheathed armoured AL cable with GI earth continuity wire by MS bar saddles on wall				
a)	3x1/2 c X 50 SQ MM	RM	40		
b)	3x1/2 C X 25 sq mm	RM	100		
11	End connection of above cable with heavy duty nickle plated brass compression gland crimping type socket insulation tape etc. with all concern.				
a)	3x1/2 C X 25 sq mm	Nos.	8		
b)	3x1/2 c X 50 SQ MM	Nos.	2		
12	Supply & fixing of 100A FP ON Load Change over (Front handle) including interconnection with suitable size of copper.	Nos.	1		

13	Supply & installation of TPN front operated 160A, 25KA, 4P MCCB (adjustable overload and fixed short circuit) in factory fabricated, powder coat painted metal enclosure complete along with statutory caution board, earthing and having wall mounting hinges etc. The box must have sufficient space for Aluminium cable termination upto 50 sqmm.	Nos.	1		
14	"Supply & installation of 16 SWG thickness sheet steel enclosure including the following duly interconnected with 2nos. 32 A DP OFF load change over switch in metal enclosure and distribution in various areas. i) 5 Nos. 25 mm x 6 mm x 300mm tinned copper bus bars (Ph-2,N-2,E-1) ii) 6 Nos. 32 Amp DP MCB and 2 Nos. neutral connector and 2 Nos. neutral (UPS Changeover)"	Nos.	1		
15	Electric Main Panel :-Supply and Installation,testing and commissioning of floor/wall mounted Electric panel fabricated with 16SWG CRCA sheet. The panel shall be dust and vermin proof including internal connection with bus bar/cables up to the terminals duly painted with two coats of powder coated paint,danger board etc. and comprising of the following:- INCOMER: 1 No. of 160A ,4P ,25KA MCCB with control fuses three LEDs R,Y,B.(WBSIEDCL) along with ammeter & Voltmeters of relevant range and selector switch and a) 1 No. of 100A 4P MCCB, 25 KA, b) 2 Nos. of 63A 4P MCCB, 25 KA at outgoing with three LEDs with control fuse for R,Y,B indication along with ammeter & Voltmeters of relevant range & selector switch with 200 amp tinned copper busbar (Normal Supply busbar).	set	1		
16	Wiring/cablings with 660/1100 V grade PVC insulated multi stranded copper wire/cable through ISI marked minimum 2 mm thick PVC conduit with junction box ,circular box, elbows ,bends, couplers and other accessories concealed (below the false ceiling) or by chase cutting on wall /floor or on surface by bar saddles.				
a)	2X4 sq mm +1X2.5 sq mm	RM	150		
b)	2X2.5 sq mm +1X1.5 sq mm	RM	280		
c)	2x6 sq mm+1x2.5 sq mm	RM	40		
d)	4x6 sq mm +2x2.5 sq mm	RM	50		
e)	4x10 sq.mm.+2x2.5 sq mm	RM	0		
d)	4x4 sq mm + 2x2.5 sq mm	RM	0		
17	Supply and laying of 1100 V grade PVC insulated multi stranded copper wire/cable through ISI marked GI flexible conduit with junction box ,circular box, elbows ,bends, couplers and other accessories on surface by bar saddles with 4X16 sq mm +2X6 sq mm.	RM	5		
18	Supply and fixing of 200A fuse cut out including fuses for WBSIEDCL or CESC power connection	Nos.	1		
19	BEMS CONDUIT WIRING (LOCKER / RECORD ROOM/ STATIONARY/ Kitchen) Point wiring with 660Vgrade PVC insulated copper wire (FRLS) 3 x 1.5 sq.mm. in 16 SWG MS conduit (ISI Marked) conduit alongwith conduit accessories circular boxes, MS boxes, 6 Amps Modular type Switch socket outlets 6 pin, all individual control switch etc. Conduit size & nos of wires in conduit as per code of practice with circuit wiring with (2x2.5 +1X1.5) sq.mm. copper wire from MCB DB.)				
a)	Fluorescent Point	Nos.	15		
b)	Ceiling Fan Point with electronic regulator	Nos.	4		
c)	Exhaust Fan Point	Nos.	2		
e)	Ceiling Fan point with regulator	Nos.	4		
d)	Board plug point 5 pin 5 Amps socket & switch.	Nos.	8		
20	S&F Tinned copper Earth Bar on insulator (25 mm x6mmx300mm)	Nos.	1		

21	Supply & installation of Modular MS Flush Metal box with front plate enclosing the following duly interconnected :a) 2 Nos 16A switch & 2 Nos 6A Socket outlet and 1 no. 6/16A socket outlet with indicator b) 1 No. mounting box c) 1 No. front plate	set	15		
22	Distribution wiring including new point wiring 660 volt grade 2x2.5+1x1.5 sq.mm. (copper) PVC insulated flexible wire in 20 mm dia. Rigid PVC (ISI Marked) conduit along with Conduit accessories circular boxes, MS boxes, 2x 6 Amps + 2x6Amps modular type switch and socket	set	18		
23	Distribution wiring including new point wiring 660 volt grade 2x1.5+1x1.5 sq.mm. (copper) PVC insulated flexible wire in 20 mm dia Rigid PVC (ISI Marked) conduit along with Conduit accessories circular boxes, MS boxes, 1x 6A + 1x6A modular type switch and socket	set	14		
24	Supply & installation of MS Flush metal box with front plate enclosing the following duly interconnected a) 1 Nos 16 amp switch & 1 Nos 6/16 amps socket outlet with indicator b) 1 No. mounting box c) 1 No. front plate	set	8		
25	FANS				
	Supply & Installation of 12" dia Exhaust fan 900 rpm with louver including hole cutting	Nos.	4		
26	Supply & Installation of 9" dia Exhaust fan 900 rpm with louver including hole cutting	Nos.	1		
27	Supply of of 48" high speed, 330rpm, air delivery 220 CMM, ceiling fan, low power consumption upto 50W (colour white)	Nos.	4		
28	Supply & Installation of 16" high speed, double ball bearing wall mounted fan (metal body)	Nos.	6		
29	LED LIGHT FITTINGS				
	Supply & fixing of Downlighter with 6500 K,1200 lumen, 110 lm/wt, LED 6000-6500 K with surge protection of 2.5 Volts	Nos.	25		
30	Supply & fixing of 2x2 Frame for LED Light Fittings	Nos.	0		
31	Supply & fixing o LED tiltable astra Spot light	Nos.	8		
32	Supply & fixing o of light fitting, 600x600 mm suitable for recess mounting,CRCA sheet, asthetic looking	Nos	16		
33	Supply and fixing of 24W 830 IP20 5M LED flexi strip with driver.	Nos.	5		
34	Supply and fixing of extruded 4 ft. aluminium batten 20 W LED Tube fittings.	Nos.	20		
35	Supplying and fixing of angular /batten holder with 9 W LED lamp on wall or ceiling with necessary interconnection.	Nos.	6		
36	Distribution wiring(concealed/surface) including new point wiring 660 volt grade 3x1.5 sq.mm. (cu) PVC flexible wire in 20 SWG Rigid PVC (ISI Marked medium grade) conduit along with Conduit accessories circular boxes, MS boxes, 6 Amps Modular Type switch with socket outlets 6 pin, all individual control switch etc. Conduit size & nos of wires in conduit as per code of practice with circuit wiring with (2x2.5 + 1X1.5) sq.mm. copper wire from MCB DB to respective switch board.N.B. (i)Earth & neutral may be looped but from the last point earth & Neutral has to be connected with switch board.(ii)Point wiring should be inclusive of continuous wire length up to the connection block of light fittings/fans.				
a)	Fluorescent Point	Nos.	14		
a)	Light point(one switch controls one light)	Nos	0		
b)	Light point(one switch controlling two lights)	Nos	25		
c)	Light point(one switch control three lights)	Nos.	2		
d)	Exhaust Fan point	Nos.	5		
e)	Ceiling Fan point with regulator	Nos	0		
f)	Call bell (with supply and fixing call bell)	Nos.	2		
g)	Wall Bracket Fan point with 6 amp 5pin socket	nos	7		
h)	Board plug point 5 pin 5 Amps with switch.	Nos.	6		

37	Supply & fixing 11-18 amp north-west motor starter with plugtop indicator type socket IN ms BOX WITH HYLAM SHEET	Nos.	4		
38	Supply & fixing 16 amp plug top with indicator	Nos.	1		
39	Supply & fixing 3cx2.5 sq.mm. PVC insulated multistrand flexible cable	RM	5		
40	Marking with printed stiker of electrical DBs,SFU,and individual circuit in UPS DB,LDB of switch board and UPS power etc.	LS.	1		
41	Earthing as per IE 3043 Rules including making of 1 No. earth station with 50 mm dia 3 mts. length GI pipe (Class B) buried at an average depth of 3 mts. below ground level with 7/14 stranded earth lead wire upto earth busbar including providing masonry inspection pit and restoration of surface duly rammed.	Nos.	6		
42	S&F 2x 2.5 PVC Armored copper Cable for Generator Neutral, CBS, VSAT earthing (From Earth station to 16 Amp VSAT sw at system room) (CONCEALED WHERE NECESSARY)	RM	80		
43	Supply and fixing of GI earth strip of size 25 mm x 3mm with insulator at 2 feet interval and all accessories nut bolts wasser etc. as required connection complete	RM	50		
44	Supplying, installation, testing & commissioning of Security ligh with 25W LED lamps with pressure die cast housing with epoxy coated dark graphite grey colour finish and prismatic polycarbonates cover with individual LED lenses, including necessary GI bracket with clamp.	Nos.	4		
TOTAL ESTIMATED AMOUNT (EXCLUDING GST)					