

BOQ :
ELECTRICAL WORKS OF SBI BERACHAMPA BRANCH ,RBO 4, BIDHANNAGAR AO

SL.No.	ITEM DESCRIPTION	Unit	Qty.	Rate (Rs)	Amount (Rs)
1	"Supply and installation(Concealed) of Double door 4way TPN vertical DB with MCCB having breaking capacity of 16 KA.a) incoming- 1 No ... 80 amp ,16KA,4P MCCB b)outgoing -09 Nos. 25-32 Amp SP MCB C series, with Necessary blanking plate as required.(As per IS8828-96Latest)" for Main DB	no	1		
2	"Supply and installation(Concealed) of Double door 4way TPN vertical DB with MCCB having breaking capacity of 16 KA.a) incoming- 1 No ... 80 amp ,16KA,4P MCCB b)outgoing -03 Nos. 32/25/20A Amp SP MCB C series, 03 nos 40 A TP MCB with Necessary blanking plate as required.(As per IS8828-96Latest)" for DG BACK UP DB	no	1		
3	Supply and fixing of TPN MCB DB (Double door) with following accessories: 1) 1x63A 4P MCB as incoming 2) 12 nos 25/10/16 A SP MCB for Main LDB	no	1		
4	"Supply & installation(concealed) of double door 12way SPN MCB DB with following accessories a)1 No. 40 amp. 100 mA DP RCBO as incoming b)10 Nos. 6-20 Amps SP MCB "	no	1		
5	"Supply & installation(concealed) of double door 8way SPN MCB DB with following accessories a)1 No. 40 amp. 100 mA DP RCBO as incoming b) 6 Nos. 6-32 Amps SP MCB" for lobby	nos	2		
6	Supply & fixing on wall industrial Plug & socket DB in metal enclosure with one 63 Amps industrial socket (3P+N+E) but with 63Amps 4P MCB (Legrand)duly interconnected.	nos	2		
7	Supply & fixing on wall industrial Plug & socket DB in metal enclosure with one 40 Amps industrial socket (P+N+E) but with 40Amps DP MCB (Legrand)duly interconnected.	Nos.	2		
8	S& F 63 amps FP MCB C series(legrand//siemens /Hager) in metal enclosure including interconnection with suitable size of copper wire) this sw will control LDB incoming.	NO	1		
9	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	4Cx50 sq.mm.	Mtrs	0		
b	4Cx25 sq.mm.	Mtrs	25		
c	4CX16 sq mm	Mtrs	80		
9	End connection of above cable with heavy duty nickel plated brass compression gland crimping type socket insulation tape etc. with all concern.				
a	3x1/2 C X25 sq mm	nos	2		
b	3x1/2 c X 50 SQ MM	nos	0		
c	3x1/2 c X 16 SQ MM	nos	6		

10	S&F 150 Amp Tinned copper FP Bus bar in metal enclosure with Cable termination box and danger board. Including 3 Nos. LED indication lamp	no	1		
11	Supply & fixing of 65 Amp FP ON Load Change over (Front handle) including interconnection with suitable size of copper.	no	1		
12	Supply & installation of TPN front operated 100 A, 16KA, 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 70 sqmm.	No.	1		
13	Supply & installation of TPN front operated 63A, 16KA, 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.	no	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)"	no	1		
15	S&F 32 amps DP MCB in MS Box with one no. microrex time switch QT31 and one 2 pole 20 amp contactor. (for exhaust fan at UPS room)	no	0		
16	Wiring/cabling 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	Mtrs.	270		
b	2X2.5 sq mm +1X1.5 sq mm	Mtrs.	200		
c	2x6 sq mm+1x2.5 sq mm	mtrs	30		
d	4x6 sq mm +2x2.5 sq mm	mtr	30		
e	4x10 sq.mm.+2x2.5 sq mm	mtr	10		
d	4x4 sq mm + 2x2.5 sq mm	mtr	0		
16	<u>BEMS CONDUIT WIRING (LOCKER / RECORD ROOM/ STATIONARY/ Kitchen)</u> Point wiring for Branch 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.	6		
b	Fan Point with regulator	Nos.	3		
c	Exhaust Fan Point	nos	1		
d	Board plug point 5 pin 5 Amps socket & switch.	nos	2		

17	S&F Tinned copper Earth Bar on insulator (25 mm x6mmx300mm)	Nos	1		
18	"Supply & installation of MS Flush Metal box with front plate enclosing the following duly interconnected :a) 2 Nos 16 amp switch & 2 Nos 6 amps and 1 no. 6/16 amps socket outlet with indicatorb) 1 No. mounting box c) 1 No. front plate "	sets	15		
19	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	15		
20	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 6 Amps + 1x6Amps modular type switch and socket	set	5		
21	"Supply & installation of MS Flush metal box with front plate enclosing the following duly interconnected make:(Crabtree /Legrand/ Philips)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	4		
FANS					
22	Supply & Installation of 12" dia Exhaust fan 900 rpm with louver including hole cutting	Nos.	3		
23	Supply & Installation of 9" dia Exhaust fan 900 rpm with louver including hole cutting	nos	1		
	Supply & Installation of 9" dia heavy duty industrial Exhaust fan 900 rpm with louver including hole cutting for ups room	no	1		
24	Supply of of 48" high speed, 330rpm, air delivery 220 CMM, BEE-5star rated fan, low power consumption upto 50W (colour white)	nos	10		
25	Supply & Installation of 16" high speed, double ball bearing wall mounted fan (metal body)	nos	2		
LED LIGHT FITTINGS					
26	Supply of 15w LED down light with efficiency 110 lumen/watt (Jaguar make LESPOIRO15XC) or eqv Bajaj /wipro/havells/ Jaguar/ Philips	Nos.	22		
27	Supply 2x2 Frame for LED Fittings	nos	1		
28	S & F Philips make LED tiltable astra Spot light or eqv. wipro/havells	Nos.	5		
29	S&F of 2x2 panel LED light fixture , efficiency 120 lm/wt, 600x600 suitable for recess mounting,CRCA sheet, asthetic looking (LULU2SLO36XC Jaguar make) or eqv Wipro/havells/Philips	Nos	25		
30	Supply and fixing of Havells make 24W 830 IP20 5M LED flexi strip with driver. Eqv. make: wipro/philips	Nos.	4		
31	S & F Philips make BN021C LED20S PSU CW GR S2. (Safe Room/Locker room etc.) or eqv./Wipro/Havells/Bajaj	Nos.	15		
32	Supplying and fixing of angular /batten holder with 9 W LEDlamp(Orpat/Philips/Havells) on wall or ceiling with necessary interconnection.	Nos.	2		

33	"Distribution wiring(concealed) 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 sw board.N.B. (I)Earth & neutral may be looped but from the last point earth & Neutral has to be connected with sw board.(ii)Point wiring should be inclusive of continuous wire length up to the connection block of light fittings/fans.				
a	Light point(one switch controls one light)	Nos	30		
b	Light point(one switch control two lights)	Nos	22		
c	Light point(one switch control three lights)	Nos.	3		
d	Exhaust fan point	Nos.	5		
e	Ceiling Fan point with regulator	Nos	5		
f	Call bell (with supply and fixing call bell)	Nos.	1		
g	Wall Bracket Fan point with 6 amp 5pin socket	nos	12		
h	Board plug point 5 pin 5 Amps with switch.	Nos.	6		
34	Supply & fixing 11-18 amp north-west motor starter with plugtop indicator type socket or eav legrand/Havells	No.	9		
35	Supply and fixing of 4p 32A Isolator with enclosure for cassette AC control	nos	0		
36	Supply & fixing 16 amp plug top with indicator	No.	2		
37	Supply & fixing 3cx2.5 sq.mm. PVC insulated multistrand flexible cable	Mtr.	8		
38	Marking with printed stiker of electrical DBs,SFU,and individual circuit in UPS DB,LDB of switch board and UPS power etc.	LS.	1		
39	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.	no	3		
40	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)	mtr	50		
41	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	mtr	50		
42	Supply and fixing of 100A/200A fuse cut out including fuses and neutral link for WBSEDCL or CESC power connection	nos	3		
43	Supply & fixing RJ-11 telephone socket	nos	2		
44	Supplying and laying and connection of PVC insulated copper conductor of size 2 pair x 0.5 sq.mm.in 20 mm dia heavy duty PVC conduit(ISI marked)	mtr	100		
45	Supply and fixing of 20 pair crone box	no	1		
	TOTAL ESTIMATED AMOUNT (EXCLUDING GST)				
IN WORDS :					