SBI INFRA MANAGEMENT SOLUTIONS PVT.LTD.

CIRCLE OFFICE, THIRD FLOOR, STATE BANK OF INDIA, SYNERGY BUILDING, C-6, G-BLOCK, BANDRA KURLA COMPLEX, BANDRA EAST, MUMBAI-400051

PART – B: FINANCIAL BID

TENDER FOR:

Proposed Electrical Work For RBO Buldana & Dormitory at Mezzanine, First Floor, & Second Floor at Buldana Tq. & Dist. Buldana.

PROJECT ARCHITECT:

Ar. Vinay D. Girdhari
B.ARCH, MCA, AIIA, AIID.FIV
GIRDHARI-SHAH & ASSOCIATES
ARCHITECTS/INTERIOR DESIGNERS/GOVT.REG.VALUERS
209/210, Building no: 3, Apna Bazar, Jalna Road, Aurangabad-431005

PROPOSED ELECTRICAL WORK FOR RBO BULDHANA, TQ & DIST.BULDHANA

SECTION	INTERNAL ELECTRIFICATION	Amount `
A	MCBs DBs	
B	POINT WIRING & FIXTURES	
C	CABLING WORK	
D	EARTHING WORK	
	SUB TOTAL [A+B+C+D]	
	LESS DISCOUNT IF ANY (%)	
	TOTAL	
	GST EXTRA @18%	
	GRAND TOTAL	
	In words `	

In Word Rs. _____

Date:_____

Place : _____

Signature of Contractor with Seal

Bill of Quantity Proposed Electrical Work (Cabeling work) For RBO Buldana & Dormitory
at Mezzanine, First Floor & Second Floor at Buldana Tq. & Dist. Buldana.

Sr. No.	Item Description	Qty.	Unit	Rate	Amount
	SECTION A [MCB DB]				
1	Providing & erecting 4 Pole MCCB of 200A,415V capacity with S.C. rating 25 kA (Ics=100% of Icu) thermal and magnetic setting with provided leads on iron /G.I. frame	1.00	Each		
2	Supplying and erecting SS enclosure for MCCB suitable for 125A to 200A MCCB.	1.00	Each		
3	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 200A complete as per specification	1.00	Mtr		
	CRITICAL MAIN LT Panel 12 WAY VTPN DB				
4	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted suitable for 3 Pole MCCB as Incommer & outgoing SP MCB (36 Poles) or TP MCB of 12 ways (36 Poles) on iron/ G.I. frame. (Vertical Busbar type)	1.00	Each		
5	Providing & erecting 4 Pole MCCB of 200A,415V capacity with S.C. rating 25 kA (Ics=100% of Icu) thermal and magnetic setting with provided leads on iron /G.I. frame	1.00	Each		
6	Supplying, erecting & marking TPMCB 6A to32A in provided distribution board	5.00	Each		
7	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board	7.00	Each		
	NON CRITICAL LT Panel 6 WAY VTPN DB				
8	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted suitable for 3 Pole MCCB as Incommer & outgoing SP MCB (24 Poles) or TP MCB of 8 ways (24 Poles) , on iron/ G.I. frame. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB1	1.00	Each		
9	Providing & erecting 4 Pole MCCB upto 100A, 415V capacity with S.C. rating 25 kA (Ics=100% of Icu), thermal setting with provided leads on iron /G.I. frame as per specification No. SW-SWR/MCCB	1.00	Each		
10	Supplying, erecting & marking TPMCB 6A to32A in provided distribution board	1.00	Each		
11	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board	5.00	Each		
	AC DB Mezanine Floor & UPS DB Second Floor				
12	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ G.I. frame/wooden board as per specification No. SW-SWR/MCBDB	2.00	Each		
13	Supplying, fixing and commissioning RCBO (Residual Current Breaker with Overcurrent Protection), type AC with 30/100/300 mA sensitivity and having capacity of 32A/40A 4 Pole 3 phase	2.00	Each		
14	Supplying, erecting & marking SPMCB 6A to 32A in provided distribution board	16.00	Each		
	AC DB First Floor, Lighting DB Mezanine Floor, Lighting DB First Floor, Raw Power DB First Floor, Lighting DB Second Floor & Raw Power and AC DB Second Floor				
15	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron / G.I. frame/wooden board.(Horizontal type) a	6.00	Each		
16	Supplying, fixing and commissioning RCBO (Residual Current Breaker with Overcurrent Protection), type AC with 30/100/300 mA sensitivity and having capacity of 32A/40A 4 Pole 3 phase	4.00	Each		
17	Supplying, fixing and commissioning RCBO (Residual Current Breaker with Overcurrent Protection), type AC with 30/100/300 mA sensitivity and having capacity of 63A 4 Pole 3 phase	2.00	Each		
18	Supplying, erecting & marking SPMCB 6A to 32A in provided distribution board	72.00	Each		
	UPS DB First Floor				
19	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 24 ways, on iron/ G.I. frame/wooden board.(Horizontal type)	1.00	Each		
20	Supplying, fixing and commissioning RCBO (Residual Current Breaker with Overcurrent Protection), type AC with 30/100/300 mA sensitivity and having capacity of 63A 4 Pole 3 phase	1.00	Each		
21	Supplying, erecting & marking SPMCB 6A to 32A in provided distribution board	18.00	Each		
22	Supplying and erecting blanking plate of suitable size on MCB DB	6.00	Each		
23	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board as per specification No. SW-SWR/MCB (For UPS Charging and Output)	2.00	Each		

24	Supplying & erecting CRCA sheet metal one way enclosures suitable for D.P.M.C.B. /T.P. M.C.B. /F.P M.C.B. complete erected on angle iron/ G.I. frame.	2.00	Each		
25	Supplying and erecting 525 V Three phase, 50 cycles, MPP type capacitor having minimum overcurrent capacity of 1.8 In, peak inrush current capacity 300 In and minimum life 150000 hours kVAR bank of all polypropylene condensers (APP) with the standard capacities of 2,3,5,7,10,12.5 and 15 kVAR units of P.F. correction for operation on 3 phase 50 cycles with externally discharging resistances, earthing terminals and built on angle iron or channel iron frame work and provided with terminal cover box complete erected on provided iron bracket or on floor duly tested by licensee.	15.00	Kvar		
26	Supplying and erecting 525 V Three phase, 50 cycles, MPP type capacitor having minimum overcurrent capacity of 1.8 In, peak inrush current capacity 300 In and minimum life 150000 hours kVAR bank of all polypropylene condensers (APP) with the standard capacities of 2,3,5,7,10,12.5 and 15 kVAR units of P.F. correction for operation on 3 phase 50 cycles with externally discharging resistances, earthing terminals and built on angle iron or channel iron frame work and provided with terminal cover box complete erected on provided iron bracket or on floor duly tested by licensee.	10.00	Kvar		
				Total (A)	

Sr. No	Item Description	Qty.	Unit	Rate	Amount
	SECTION B [POINT WIRING]				
1	Point wiring for light/fan/bell concealed type in min 20 mm PVC conduit with 1.5 sq.mm. (2+1E) FR grade copper wires, moduler type switch, earthing and required accessaries as per specification No: WG-PW/CW	244	Point		
2	Supplying and erecting modular type electronic step regulator for fan two module ISI mark approved make duly erected on provided plate and box with wiring connections complete.	33	Point		
3	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement morter / POP as per required to match the background in an approved manner.	33	Point		
4	Wiring for plug on board with switch socket with copper wiring and earthing as per specification no. FG-PW/SW	87	Point		
5	Point wiring for independent plug, concealed type in min 20mm PVC conduit with 1.5 sq.mm FR grade copper wires with moduler type switch and socket and required accessaries as per specification No WG-PW/SW	80	Point		
6	Supplying & Erecting modular type 3 pin 6/16A multi socket with safety shutters combined unit ISI marked approved make duly erected on provided plate & box with wiring connections complete	35	Each		
7	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement morter / POP as per required to match the background in an approved manner.	35	Each		
8	Supplying & erecting mains with 2x2.5 sq.mm.and earth wire 1.5 sq.mm FR PVC copper wire, in rigid PVC conduit min.20mm dia, as per specification No: WG-MA/PC, para no. 1.4.1 (Consealed Type) (Lighting Mains)	922	Mtr.		
9	Supplying & erecting mains with 2x4 sq.mm.and earth wire 2.5 sq.mm FR PVC copper wire in rigid PVC conduit min.20mm dia,as per specification No: WG-MA/PC, para no. 1.4.1 (Consealed Type) (Power Mains)	1191	Mtr.		
10	Supplying and erecting modular type D.P. switch 32A with indicator ISI mark approved make duly erected on provided plate and box with wiring connections complete. (For AC)	23	Each		
11	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement morter / POP as per required to match the background in an approved manner.	23	Each		
12	Supplying & erecting mains with 2x4 sq.mm.and earth wire 2.5 sq.mm FR PVC copper wire in rigid PVC conduit min.20mm dia,as per specification No: WG-MA/PC, para no. 1.4.1 (Consealed Type) (AC Mains)	750	Mtr.		

13	Supplying and erecting square shaped CRCA /die-cast aluminium powder coated housing LED Panel light (slim edge-lit) suitable for 9 W 12 W with provision for plane front frame with translucent cover fixed to the housing complete.	4	Each		
14	Supplying and erecting square / round shaped CRCA /die-cast aluminium powder coated housing LED Panel (slim edge-lit) light suitable for 13 to18W with provision for plane front frame with translucent cover fixed to the housing complete..	142	Each		
15	Supplying and erecting square shaped CRCA /die-cast aluminium powder coated housing LED Panel light (slim edge-lit) 600X600mm suitable for 36 W-40W with provision for plane front frame with translucent cover fixed to the housing complete.	35	Each		
16	Supplying & erecting T8 LED 18W tube light fitting (4 feet) with polycarbonate housing, heat sink, integrated HF electronic driver complete (including lamp).	7	Each		
17	Supplying and erecting Five Star Rated Energy Saving Ceiling Fan 230 V A.C. 50 cycles 1200 mm complete erected in position as perspecifcation no. FG-FN/CF	33	Each		
18	Supplying and erecting Exhaust fan medium duty 230 V A.C. 50cycles 225 mm. 1400RPM with condensor complete erected in positionwith necessary materials. Fanmotor with moisture proof treatment and'E' class insulation and marking Sr. No. & date of erction.	8	Each		
19	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	9	Each		
				TOTAL (B)	

Sr. No.	Item Description	Qty.	Unit	Rate	Amount
	SECTION C (CABLING WORK)				
1	Supplying, erecting & terminating PVC armoured cable 3½ core 70 sq mm aluminium conductor with continuous 8.35 sq mm (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe	115.00	Mtr		
2	Supplying & erecting Siemens type brass cable glands for 3½ core 70 sq mm for PVC armoured cable as per specification No. CB-GL	3.00	Each		
3	Supplying & erecting crimping type aluminium lugs for cable 70 sq mm complete	9.00	Each		
4	Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete	3.00	Each		
5	Supplying, erecting & terminating PVC armoured cable 3½ core 50 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	15.00	Mtr		
6	Supplying & erecting Siemens type brass cable glands for 4 core 50 sq mm for PVC armoured cable as per specification No. CB-GL	2.00	Each		
7	Supplying & erecting crimping type aluminium lugs for cable 50 sq mm complete as per specification No. CB-CL/AL	6.00	Each		
8	Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete	2.00	Each		
9	Supplying, erecting & terminating PVC armoured cable 3½ core 25 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	10.00	Mtr		
10	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq mm /3 to 4 core 25 sq mm /3 core 35 sq mm for PVC armoured cable as per specification No. CB-GL	1.00	Each		
11	Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete as per specification No. CB-CL/AL	3.00	Each		
12	Supplying & erecting crimping type aluminium lugs for cable upto 16 sq mm complete as per specification No. CB-CL/AL	1.00	Each		
13	Supplying, erecting & terminating PVC armoured cable 4 core 16 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	30.00	Mtr		
14	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq mm /3 to 4 core 25 sq mm /3 core 35 sq mm for PVC armoured cable as per specification No. CB-GL	2.00	Each		
15	Supplying & erecting crimping type aluminium lugs for cable upto 16 sq mm complete as per specification No. CB-CL/AL	8.00	Each		

16	Supplying, erecting & terminating PVC armoured cable 4 core 10 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	45.00	Mtr		
17	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm for PVC armoured cable as per specification No. CB-GL	1.00	Each		
18	Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No. CB-CL/CU	4.00	Each		
19	Supplying, erecting & terminating PVC armoured cable 4 core 6 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	80.00	Mtr		
20	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm for PVC armoured cable as per specification No. CB-GL	3.00	Each		
21	Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No. CB-CL/CU	12.00	Each		
22	Supplying, erecting & terminating PVC armoured cable 4 core 4 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	55.00	Mtr		
23	Supplying & erecting Siemens type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm for PVC armoured cable as per specification No. CB-GL	4.00	Each		
24	Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No. CB-CL/CU	16.00	Each		
25	Supplying, erecting & terminating PVC armoured cable 3 core 10 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	10.00	Mtr		
26	Supplying & erecting Siemens type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm for PVC armoured cable as per specification No. CB-GL	2.00	Each		
27	Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No. CB-CL/CU	8.00	Each		
28	Supplying, erecting & terminating PVC armoured cable 2 core 2.5 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	20.00	Mtr		
29	Supplying & erecting Siemens type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm for PVC armoured cable as per specification No. CB-GL	1.00	Each		
30	Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No. CB-CL/CU	4.00	Each		
				TOTAL (C)	

Sr.No.	Item Description	Qty.	Unit	Rate	Amount
	SECTION D (EARTHING WORK)				
1	Providing earthing with Galvanised cast iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials,testing & recording the results (LT Panel, LA - 2 Nos each, UPS - 1 No.)	5.00	Each		
2	Providing earthing with Copper earth plate size 60 x 60 x 0.315 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover with minimum 25 kg of maintenance free earth conductivity enhancing mineral earthing compound complete with all materials, testing & recording the results as per specification no ESE -LA	1.00	Each		
3	Supplying and erecting G.I. strip of 25x3 size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joint required. as per specification No (EA-EP). (0.59 kg/Mtr)	85.00	Mtr		
4	Supplying and erecting copper strip of 25x3 size used for earthing on wall and/or any other purpose with necessary copper clamps fixed on wall painted with bituminous paint in an approved manner with joints required. As per specification No EA-EP. (0.67 kg/Mtr)	15.00	Mtr		

5	Supplying & erecting G.I.Earth wire of high purity of 8 SWG size used for earthing or any other purposes on wall with G.I.necessary clamps as fixed on wall/cable/conduit with screws in an approved manner (0.102 Kg/Mtr)	200.00	Mtr		
6	Supplying & erecting conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40 mm dia copper pipe of standard length with 5 Nos. copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation in an approved manner.	2.00	Each		
				TOTAL (D)	
			TOTAL A+B+C+D		

In Word Rs. _____

Date:_____

Place : _____

Signature of Contractor with Seal