

**SBI, MINI RACPC & RACC DHARMAVARAM**

**Estimate for Electrical Installation Works**

Sl.No.	Description	UOM	Qty.	Rate (Rs.)	Amount (Rs.)
1	<b>Main Panel:</b> Supplying, Installing, testing and commissioning of fabricated floor cubicle type distribution Panel Board suitable for 415 V comprising of 3 Nos. 50 mm X 6 mm for phase and 40 mm X 6 mm for neutral copper bus bars with the following: 1 no. 200 A 4P MCCB of 25kA breaking capacity at incoming 1 no. 100 A 4P MCCB (for ESDB), 2 NO. 63 A 4P MCCBs (for individual AC DBs), 1 no. 63 A 4P MCCB (for spare), 63 A SPMCB (for out door lighting) at outgoing in compartmentalized chamber fully isolated with 2 mm thick steel sheet and 3 mm steel channel painted with 2 coats of red oxide primer paint followed by finishing paint with interconnection etc. as required. The MCCB should have adjustable overload setting With load/line interchangeability with thermo magnetic /static release. The price is to be inclusive of phase indicator lamps, multi functional meter etc.	No.s	1		
2	Supply, installation, testing & commissioning of 5 stage Automatic Power Factor Control Panel (APFC Panel) of 20 KVAR capacity (10+5+2+2+1 KVAR capacitors) as below: 63 A 4P MCCB as incomer. Three Pole MCBs and Heavy duty contactors for outgoing 40 A for 10 KVAR, 32 FOR 5 Kvar & 16 A for 1 KVAR and 2 KVAR Necessary APFC Relay, power and control wiring with 1.1 KV grade copper wire suitably rated and sensing CT as required + individual push button for ON & OFF operation, and auto / manual switch etc as required / instructed	No.s	1		
3	Supply ,installation ,testing and commissioning of <b>Essential services DB:-</b> VTPN DB – IP 43-IK 09 - approved make comprising of 100 A 4P MCB at incoming and 2 No. 63 A TPMCB (for individual light & raw power dbs), 2 no. 40A SPMCB (for 2 no. 5kVA UPS), 3 nos of 25A SP MCBs (branch head AC) at outgoing with inter connection in PVC insulated color coded wire in PVC conduit cable socket including loop earth connection to earth bus bars etc. all complete including mending good the damage and painting.	No.s	1		
4	Supply ,installation ,testing and commissioning of <b>AC DB:</b> VTPN DB – IP 43-IK 09 - approved make comprising of 63 A 4P MCB of at incoming and 6 no. 32 A SPMCBs 3 no. 25 A SPMCBs (for individual HWM units) with inter connection in PVC insulated color coded wire in PVC conduit cable socket including loop earth connection to earth bus bars etc. all complete including mending good the damage and painting.	No.s	2		
5	Supply, installation, testing and commissioning of PPI double door DB with 63 A 4PMCB as incomer and 3 no 63 RCCBs each at oone phase, 18 no. 25 A SPMCBs at outgoing <b>LIGHT &amp; RAW POWER DBs</b>	No.s	2		
6	Supply, installation, testing and commissioning of <b>UPS outgoing DB:</b> DP MCB box with 40 A DPMCB	No.s	4		
7	<b>Supply, installation and testing &amp; commissionin of UPS Computer DB,</b> SPN double door with 40A DP MCB as incomer & 8nos 16A SP MCB as outgoing.	No.s	2		
8	Supply, installation, testing and commissioning of DB with 32A DP MCB for Cassette unit control	No.s	8		
9	Supply, installation, testing and commissioning of DB with 25A DPMCB for HWM units control	No.s	4		
10	Supply, installation, testing and commissioning of DB with 63 A 4P MCB for master control of lights at entrance gate	No.s	4		
11	<b>AC point wiring:</b> Wiring in PVC conduit of IS specification of Proper size with core PVC insulated stranded copper wire 1.1 KV grade and with all materials supply ,installation connection complete as per circuit diagram and as required from ESDB to AC points at BM / Server room with 3 no. 4 sq. mm (Phase, Neutral and Earth)	RM	350		
12	<b>Wiring:</b> Wiring in PVC conduit of IS specification of Proper size with core PVC insulated stranded copper wire 1.1 KV grade and with all materials supply ,installation connection complete as per circuit diagram and as required from main DB to various Dbs: With 3nos 6sq.mm (Phase, Neutral and Earth)	RM	150		
13	<b>Wiring:</b> Wiring in PVC conduit of IS specification of Proper size with core PVC insulated stranded copper wire 1.1 KV grade and with all materials supply ,installation connection complete as per circuit diagram and as required from main DB to various Dbs: With 5nos 6sq.mm	RM	150		

14	<b>Wiring:</b> Wiring in PVC conduit of IS specification of Proper size with core PVC insulated stranded copper wire 1.1 KV grade and with all materials supply ,installation connection complete as per circuit diagram and as required from main DB to various Dbs: With 5nos 10sq.mm (R,Y,B, Neutral and Earth)	RM	50		
15	<b>Cabling:</b> Supply and laying of following sizes of PVC/XLPE insulated and PVC sheathed 1.1 kV grade aluminum conductor LT armoured UG cable laid in ground/partially in air including excavation of cable trench upto depth of 75 cm. Refilling, protective brick covering, sand cushioning etc. complete handling of surplus soil, debris etc. to proper place as well as fixing to the walls with saddles, cable glands for connecting to the panels and appropriate end termination with copper lugs and providing of 2 nos. of 8 SWG GI wires as specified and directed by the department 3.5 Core X 35 sq. mm	RM	80		
16	<b>Cabling:</b> Supply and laying of following sizes of PVC/XLPE insulated and PVC sheathed 1.1 kV grade aluminum conductor LT armoured UG cable laid in ground/partially in air including excavation of cable trench upto depth of 75 cm. Refilling, protective brick covering, sand cushioning etc. complete handling of surplus soil, debris etc. to proper place as well as fixing to the walls with saddles, cable glands for connecting to the panels and appropriate end termination with copper lugs and providing of 2 nos. of 8 SWG GI wires as specified and directed by the department 4.0 core X 16 sq. mm	RM	75		
17	<b>Computer point wiring</b> in PVC conduit of IS specification of proper size with 3nos 2.5sq.mm single core PVC insulated stranded copper wire 1.1KV grade and with all material supply installation and commissioning complete from CDB/PDB(Raw) .The wiring shall be carried out on surface above false ceiling and concealed in the wall by chiseling the existing surface and plastering the same with cement etc. after fixing the pvc conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnection and proper earthing .All the opening shall be covered with blank plate and be sealed to make the box vermin proof.				
a	UPS point: 4 no. 6A sockets fixed below the table, to be controlled by one no. 20 A modular DP switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	4		
b	UPS point: 3 no. 6A sockets fixed below the table, to be controlled by one no. 16 A modular DP switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	26		
c	Raw power point: 2 no. 6A sockets to be controlled by one no. 16 A modular switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	26		
d	Raw power point: 1 no. 6 / 16 A controlled by 16 A switch. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	5		
18	<b>General Wiring</b> for light/fan/exhaust fan points using 3 X 1.5 1.1 kV grade PVC insulated stranded copper conductor wire for phase, neutral and earth in 25 mm dia heavy duty PVC conduit along with associated accessories like MS junction boxes, bends, saddles, screws etc. concealed in wall, floor, under flooring, below false ceiling or on surface as well as suspended from ceiling with 25mm X 3 mm MS flat suspenders duly painted above false ceiling from individual light/Fan/Exhaust Fan point outlet. etc. to individual modular type switch boards, 6 Amp modular plate type switches etc., as required complete including circuit wiring with 3 X 2.5 sqmm. 1.1 kV grade PVC insulated stranded copper conductor wire and mending good to damage and as per site requirement and as instructed by engineer. All the opening shall be covered with blank plate and be sealed to make the box vermin proof.				
a	2 no. of lights controlled by one switch	Set	25.00		
b	Wiring for 1 no. of lights by one switch.	Set	41.00		
c	Wiring for Wall bracket fans / exhaust fan controlled by 6A switch at switch board and 1 no. 6 A socket in MS box at ceiling level.	Set	24.00		
d	Wiring for Ceiling fans with electronic regulators	Set	3.00		
e	Wiring for 6 A light plug controlled by 6 A switch on the same switch board along with switch and socket	Set	10		
f	Wirin for Call bell point for Branch Manager chamber along with the supply of call bell	Set	1.00		
g	Wiring and installation of 6A light plug socket with 6A switch wiring including all accessories, as per the branch requirement in the banking hall	Set	5		

19	Wiring for glow sign board and out side security lighting with 3 X 4 sq.mm 1.1 kV grade PVC insulated stranded copper conductor wire for phase, neutral and earth in 25 mm dia heavy duty PVC conduit along with associated accessories like PVC junction boxes, bends, saddles, screws etc.	Set	2		
20	Supply, installation, testing and commissioning of 1.1 kV grade 2.5 sq. mm flexible copper cable 3 meter length connected at one end with 15 A three pin socket and other end connected permanently to the switch board of safe room / locker room	Set	6		
21	<b>Earth Stations:</b> Supply, installing and commissioning of earth station including digging and refilling back the pit with black soil and with 3mm x 600mm X 600 mm size copper plate duly tinned through out the surface of the plate, placed at least 1.5Mtr, below the ground level with 25 X 3 flat Cu strip fixed to the plate and providing 40mm, 2mtr, long GI pipe with reducer and funnel at top for watering pipe. As per IS 3043-1987 or latest version. The price should be inclusive of preparation of brick masonry chamber, with covering plate etc.	Set	2		
22	supplying and laying earth continuity wire of 8 SWG Cu insulated wire in 20 mm dia PVC conduit on the wall from earth plate to starting point of the line earth connector.	RM	10		
23	Providing standard GI pipe earth station, with 100 mm dia 2500 mm long G I Pipe including excavation, construction of brick masonry chamber providing meshed funnel, electrode, watering pipe, charcoal and salt fill, CI cover completely as per IS 3043-1987 or latest revision. The rates to be inclusive of supply and laying of 8 SWG GI wire in 20 mm dia pvc conduit from earth pit to DB	Set	1		
24	Supply, installation, testing and commissioning of Recess mounted luminaire of 2' X 2' flat type modular 36W LED light fixture complete with electronic driver, wiring, heat sink, opal acrylic diffuser etc. suitable for gyp board or metric false ceiling. The fixture shall be provided with atleast three nos. 20mm dia knock out holes on the top side for fixing down rods and wiring purpose.	Nos.	25		
25	Supply, installation, testing and commissioning of Recessed decorative LED down lighter of 15W complete with electronic driver, wiring, heat sink, opal acrylic diffuser etc. suitable for gyp board or metric false ceiling	No.s	50		
26	Supply, installation, testing and commissioning of 15 / 18 W LED batten suitable for indoor application.	No.s	16		
27	Supply, installation, testing and commissioning of Supply, Installation, testing and commissioning of holder type 7 W LED lamps complete including connections as required. (Make Philips / Bajaj)	No.s	0		
28	Supply, installation, testing and commissioning of Exhaust fan 300 mm Crompton / Bajaj /Usha / Havell's make	No.s	7		
29	Supply, installation, testing and commissioning of Ceiling fan 1200 mm, Crompton / Bajaj /Usha/ Havell's make	No.s	3		
30	Supply, installation, testing and commissioning of Wall bracket fan 450 mm Crompton/Bajaj/Usha/Havell's make (whole body and blades should be of metal only)	No.s	17		
31	Supply, installation, testing and commissioning of Security lighting with designer LED street light with pressure die cast housing of 75 W capacity.	No.s	0		
32	Supply, installation, testing and commissioning of LED indicator lamps (R, Y, B) with 3 no.s lamp holders and 3 nos. 5 A switches on a suitable board and wiring with 1.1 kV grade 3 X 1.5 sq.mm copper flexible wire in PVC pipe tapping power from EB cut outs.	Set	1		
33	Supply and laying of 6 mm thick rubber mat with ISI mark as required	No.s	1		

+ GST as applicable