

**SBI, KALIGIRI BRANCH**  
**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. 250 A 4P MCCB of 35kA breaking capacity at incoming 1 no. 100 A 4P MCCB of 16 kA breaking capacity (for ESDB), 100 A 4P MCCB of 16 kA breaking capacity (for AC panel), 1 no. 63 A 4P MCB (for capacitor panel) 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.	No.s	1		
2	Supply, installation, testing & commissioning of 6 stage Automatic Power Factor Control Panel (APFC Panel) of 26 KVAR capacity (10+5+5+2+2+2 KVAR capacitors) as below: 63 A 4P MCCB as incomer. Three Pole MCBs and Heavy duty contactors for outgoing 1 no. 40 A for 10 KVAR, 2 no.32 A for 5 KVAR, 2 no. 20 A for 2 kVAR Necessary APFC Relay, power and control wiring with 1.1 KV grade copper wire suitably rated and sensing CT as required.	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 MCCB of breaking capacity 16KA at incoming and 1 No. 40 A TPMCB (for light db), 2 no.40 A SP MCB for raw power DB, 1 no. 40 A SPMCB for 5 kVA UPS incomer, 1 no. 40 A TPMCB for ATM & 1 No. of 25A SP MCB (for System room / BM room 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. The MCCB should have adjustable overload setting With load/line interchangeability with thermo magnetic /static release.	No.s	1		
4	Supply ,installation ,testing and commissioning of <b>AC DB:-</b> VTPN DB – IP 43-IK 09 - approved make) comprising of 100 A 4P MCCB of breaking capacity 16KA at incoming and 4 No. 40 TPMCBs (for 3 TR Cassette AC machines), 3 no. 25 A SPMCBs (for other AC s) 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. The MCCB should have adjustable overload setting With load/line interchangeability with thermo magnetic /static	No.s	1		
5	Supply, installation, testing and commissioning of <b>TPN Light DB:</b> TPN DB with 40 A 4P MCB as incomer and 6 no. 16 A SPMCBs and 3 no. 10 A SPMCBs at outgoing to individual SB circuits	No.s	1		
6	Supply, installation, testing and commissioning of <b>SPN Raw Power DB:</b> SPDB with 40 A SP MCB as incomer and 4 no. 16 A SPMCBs at outgoing	No.s	2		
7	Supply, installation, testing and commissioning of <b>UPS incomer &amp; out going DBs:</b> DP MCB box with 40 A DPMCB	No.s	2		
8	<b>UPS output DB,</b> SPN double door with 40A DP MCB as incomer & 2nos 32 A DP MCB as outgoing.	No.s	2		
9	<b>UPS Computer DB,</b> SPN double door with 32A DP MCB as incomer & 4nos 10A SP MCB as outgoing.	No.s	2		
10	Supply, installation, testing and commissioning of 32A TP industrial plug socket in metal clad with 32A TP MCB	No.s	4		
11	Supply, installation, testing and commissioning of 20A industrial plug socket in metal clad with 20A SP MCB	No.s	3		
12	Supply, installation, testing and commissioning of DB with 40 A 4P MCB for master control of lights at entrance gate	No.s	1		

13	<p><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 (P, N &amp; E)</p>	RM	65		
14	<p><b>Sub-main line 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 (P, N &amp; E) from -UPS to UPS out going Dbs -UPS outgoing DB to UPS computer DB -ESPN DB to UPS incomer DB</p>	RM	125		
15	<p><b>Sub-main line 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 (R, Y, B, N &amp; E) from ESDB to TPN light DB &amp; Raw power DB AC VTPN DB to Cassetee AC point wiring</p>	RM	200		
16	<p><b>Cablig:</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 50 sq. mm (from main Line to Panel)</p>	RM	45		
17	<p><b>Cablig:</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 (from main Panel to ESDB and AC DB)</p>	RM	30		
18	<p><b>Cablig:</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 25 sq. mm (from main Panel to capacitor panel)</p>	RM	10		
19	<p><b>Cablig:</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 core X 16 sq. mm (from ESDB to ATM Room DB)</p>	RM	45		

20	<p><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.</p> <p><b>UPS point for SWC &amp; branch Manager table: 4 no. 6A sockets fixed below the table, to be controlled by one no. 16 A modular DP switch above the table / counter.</b> The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.</p>	Set	8		
21	<p><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.</p> <p><b>UPS &amp; Raw power point for SWC and other work stations: 3 no. 6A sockets fixed below the table to be controlled by one no. 16 A modular switch above the table / counter.</b> The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.</p>	Set	15		
22	<p><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.</p> <p><b>Raw power point: 1 no. 6 / 16 A controlled by 16 A switch.</b> The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.</p>	Set	5		
23	<p><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.</p>	Set	1.00		
24	6A light plug socket with 6A switch wiring including all accessories, as per the branch requirement in the banking hall	Set	5		
25	Wiring for glow sign board 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	1		

26	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	Set	1		
27	Supply, installation, testing and commissioning of 1.1 kV grade 4.0 sq. mm flexible copper cable 3 meter length connected at one end with 20 A three pin socket and other end connected permanently to the switch board of safe	Set	1		
28	Supplying and laying of 2 pair 0.5mm dia telephone cable of tinned copper conductor in PVC conduit of suitable size from crone to each telephone socket.	RM	400		
29	Supply, installation, testing and commissioning of 20 pair krone connector in a suitable box as required and directed.	No.s	1		
30	RJ – 11 telephone sockets with suitable mounting box of modular type, including all inter connections as required and directed.	no.s	13		
31	Supply, installation, testing and commissioning of 20 pair 0.5 sq.mm tinned copper conductor in PVC conduit from krone to MDF / EPABX	RM	10		
32	Supply and laying of ISI marked 25mm dia medium grade PVC conduit for data cabling with fish wire	RM	140		
33	Supply and installation of MS boxes suitable for data outlet I/O boxes	no.s	13		
34	<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 masanary chamber, with covering place etc.	Set	1		
35	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	15		
36	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 suply and laying of 8 SWG GI wire in 20 mm dia pvc conduit from earth pit to	Set	2		
37	Supply, installation, testing and commissioning of Recess mounted lumanaire 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.	20		
38	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 ceilint.	No.s	32		
39	Supply, installation, testing and commissioning of 18 W LED batten suitable for indoor application.	No.s	22		
40	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	3		
41	Supply, installation, testing and commissioning of Exhaust fan 300 mm Crompton / Bajaj /Usha / Havell's make	No.s	4		
42	Supply, installation, testing and commissioning of Ceiling fan 1200 mm, Crompton / Bajaj /Usha/ Havell's make	No.s	8		
43	Supply, installation, testing and commissioning of Wall bracket fan 400 mm Crompton/Bajaj/Usha/Havell's make	No.s	14		
44	Supply, installation, testing and commissioning of Bulk head light fittings with 11W LED lamp suitable for outdoor purpose	No.s	5		
45	Supply, installation, testing and commissioning of LED indicator lamps (R, Y, B) with 3 no.s lamp holders and 3 nos. 5 A swtches 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		
46	Supply, installation, testing and commissioning of 100A 4P online changeover switch and changing over the load from mains supply to generatorl	Set	1		

Total Part 1

**Part 2: ATM works**

1	Supply ,installation ,testing and commissioning of following distribution boards manufactures made sheet steel enclosure With the following MCCBs / MCBs isolators and connecting the same to the system complete in all respect with all accessories including <b>making good the damage</b> <b>TPN DB with</b> <b>Incoming:</b> 40 A 4 Pole MCB and <b>Outgoing:</b> 3 No. 10 A SPMCB – for light wiring 2 no. 25 A SPMCBs – for AC points & glow sign board 2 No. 25 A SPMCBs – for UPS incomer	No.s	1		
2	DB with 25A DP MCB (for UPS Input and Output)	No.s	4		
3	20A industrial plug socket in metal clad with 20A SP MCB	No.s	1		
4	SPN Double door DB with 25 A DP MCB as incomer and 3 no. 16 A SPMCBs as out going	no.s	1		
5	<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 (1ECC)	RM	12		
6	<b>Sub-main line 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 (1ECC) from -UPS to UPS out going Dbs -UPS outgoing DB to UPS ATM DB	RM	15		
7	<b>ATM 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, on wall by chiseling the existing surface and plastering the same with cement etc. after fixing the 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. <b>With 2nos 16A socket with individual 16 A Switch</b>	No.s	1		
8	<b>ATM 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, on wall by chiseling the existing surface and plastering the same with cement etc. after fixing the 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. <b>With 1nos 6/16A socket with individual switch.</b>	No.s	4		

9	<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.	Set	2		
10	1 no. light / fan controlled by one switch	Set	2		
11	Wiring for glow sign board 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 MS junction boxes, bends, saddles, screws etc. Rate should be inclusive of timer in original	Set	1		
12	<b>Earth Station</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 masanary chamber, with covering place etc.	Set	1		
13	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	15		
14	Supply, installation, testing and commissioning of Recess mounted lumanaire 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.	1		
15	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 ceilint.	No.s	4		
16	Down Lighter (for entrance) WIPRO LED down lighter for entrance shutter boxing area. Model no. CRDL10R005HP60 of 6W	no.s	2		
17	Supply, Installation, testing and commissioning of 24 W LED batten suitable for indoor application.	No.s	1		

Total Part 2

Part 1 + 2

