

**STATE BANK OF INDIA
LOCAL HEAD OFFICE, GUWAHATI
PREMISES & ESTATE DEPARTMENT
GUWAHATI, ASSAM.**

Estimate for Electrical Installation Works for renovation of MIRZA Branch, Guwahati, Assam

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST)	Amount (Rs.) (Exclusive of GST)
1	Main Panel: Supply and Installation,testing and commissioning of floor/wall mounted 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 Seimens grey powder coated paint,danger board etc. and comprising of the following:- i) INCOMER: a) 160 amp ,4P ,36KA MCCB with control fuses three LEDs R,Y,B.(APDCL) along with ammeter & Voltmeters of relevant range and selector switch, b) 100A onload changeover, c)100A 4P ,36KA MCCB with control fuses three LEDs R,Y,B.(DG set) ii) OUTGOING: a) 300 amp tinned copper double busbar system i) 2 nos. 63A 4P MCCB of 36 kA on main bus ii) 2 nos. 63A 4P MCCB of 36 kA on DG bus. Panel must be manufactured by CPRI approved builders.	Set	1		
2	APFC Panel:- Supplying, Installing, testing and commissioning of 10 kVAR APFC panel floor/wall mounted front operated toatly enclosed vermin proof indoor non drowout cubical type power panel fabricated out of 16SWG thick CRCA sheet having gasketed hinged cover on each cubicle fully powder coated with suitable bus bar for connecting the capacitors, MCBs, contactors etc. with the following accessories: A set of RYB LED indication lamp as incomer 63A TPN MCB C-type as incomer-01no., 1 no. 32A 3p contactor for 5kVAR, 2 nos. 25A 3P contactor for 2 kVAR and 16A 3P contactor for 1 kVAR with 1 nos. 5KVAR, 2 nos. 2KVAR and 1 no. 1KVar capacitor alongwith 6 step APFC relay. The panel shoulf have On/OFF push button for each capacitor with respective ON/OFF indication LED lamp	Set	1		
3	Sub-main line:- Wiring in MS conduit of IS specification of Proper size with core PVC insulated stranded copper wire 11KV grade and with supply ,installation, commissioning of all the materials required including proper termination, connection in complete as required from main DB to various DBs:-				
i)	with 2nos 4sq.mm and 1 no. 2.5 sqmm (1ECC)	RM	210		
ii)	with 2nos 6sq.mm and 1 no. 2.5 sqmm (1ECC)	RM	160		
4	Supply ,installation ,testing and commissioning of distribution board manufactures made sheet steel enclosure With the following MCBs (DB, MCB and MCCB and connecting the same to the system.				
i)	Computer/Raw power DB, 12way SPN double door with 40A (30mA)DP RCCB as incomer &10 nos 6-16A SP MCB as outgoing.	No.s	3		

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ii)	2 way DB with 63A DP MCB.	No.s	4		
iii)	2 way DB with 16A DP MCB.	No.s	2		
iv)	2 way DB with 32 A DP RCCB, 30mA for AC	No.s	7		
v)	4way VTPN Double Door Distribution Board with 63A 4 Pole MCCB (36kA) as incomer and 12 Nos. 20-32A C curve type SP MCB's at outgoing (ACDB)	Set	1		
vi)	4way VTPN Double Door Distribution Board with 63A 4 Pole MCCB (36kA) as incomer and 2 no. 63A SP MCB and 10 nos. of 20-32 A SP MCB at outgoing. All MCB should be C curve type (LPDB)	Set	1		
vii)	Light DB 8 way SPN double door with 32A (100mA)DP RCCB as incomer & 6 nos 6-20A SP MCB as outgoing.	No.s	2		
5	Supplying, installing and commissioning of PVC Armored cable complete with proper cable glands and two nos. of 8SWG GI wire longwith all the other materials required including proper connection in complete as required from main Panel, Power Distribution Board to various DBs .				
i)	With 4 core x 25 sq. mm cable (VTPN DB & DG SET)	RM	120		
ii)	With 3.5 core x 50 sq. mm cable (mains)	RM	50		
6	Supply of advance maintenance free Chemical Gel Earthing of Dual Pipe Technology (GI) of 3mtr long 50mm dia of outer shell (MS) with the 25mm dia of inner shell (MS) of 80-100 microns galvanized JK CHEMRODE filled with highly conducting metallic compounds with the permanent sealings at both the ends with the lead terminal of 32x10mm size made at the top along with 50 Kgs of JK RESLOW (mixture of Sulphate, Silica, Alumina, Iron Oxide, Titanium Oxide, Calcium Oxide, Potassium Oxide, Chloride, Nickel Oxide, Magnesium Oxide, Sodium Oxide, Zinc Oxide, etc) Resistance Lowering Grounding Minerals. The loss on ignition by mass of the chemical compound JK RESLOW shall be less than 20%. The chemical compound should be tested and certified by any International accredited and BIS (Bureau of Indian Standards) accredited laboratory. The testing laboratory should be ISO 9001 & ISO 14001 certified. The JK CHEMRODE shall be duly tested & certified by CPRI (Central Power Research Institute), Govt of India for a minimum short circuit current of 30 KA rms. The chemical earth electrode manufacturer shall be an ISO 9001:2015 & ISO 14001:2004 certified organization. Certificate of earth resistance value is to be submitted by the by the vendor in accordance with the manufacturer. (Video proof of the earthing should be kept for final billing) Earth pit for UPS will be separate	Set	4		
7	Supplying and fixing 2X8 SWG dia copper earth wire in hard PVC conduit on surface or in recess including supply 2 nos. of earth bus for earthing from Eathpit to Earth Busbar distibuted upto to DBs	Mtr	120		

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8	Computer/Raw Power point wiring in MS 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 by chiseling the existing surface and plastering the same with cement etc. after fixing the MS 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.B48(maximum three points in single circuit)				
i)	With 3nos 6A socket with single 16A switch.	No.s	24		
ii)	With 2nos 16A socket with individual switch.	No.s	12		
iii)	With 1nos 16A socket with individual switch.	No.s	6		
9	Supply & Fixing of 15Watt commercial down lights of system efficacy >100lm/W. The light should be recessed mounted slim circular type LED panel with die-cast aluminium housing and smooth powder coated finish with anti glare UV stabilized diffuser and separate energy efficient electronic driver having inbuilt surge protection upto 2.5kV. LED burning hours must be 50000 hrs., LM79 report must be submitted from NABL accredited test Lab. (Make - as in tender make list)	Nos	45		
10	Supply and fixing of 2'x2' LED commercial Luminaire of 36 Watt with system efficacy of 110lm/W. The light should be recessed mounted type and low depth with CRCA powder coated housing, high transmittance diffuser for symmetric light distribution with non-integral energy efficient isolated electronic driver and inbuilt surge protection upto 3kV. LED burning hours must be 50000 hrs., LM79 report must be submitted from NABL accredited test Lab. (Make - as in tender make list)	Nos	27		
11	Supply and fixing of LED commercial batten Single Tube light fittings with 20W with glare free light distribution wall mounted at ceiling/false ceiling level. LED burning hours must be 50000 hrs., LM79 report must be submitted from NABL accredited test Lab. (Make - as in tender make list)	Nos	15		
12	Supply and installation of 5 Star rated BLDC Ceiling fan 1200 mm sweep	No.s	3		
13	Supply and installation of Heavy Duty metallic body & Blades Exhaust Fan 300 mm	No.s	5		
14	Supply and installation of Wall Mounted fan 400 mm sweep Metallic body and metallic Blade ,1400 rpm	Nos.	12		

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15	Wiring 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 MS conduit along with associated accessories like MS junction boxes, bends, saddles, screws et. 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, 10 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 as per site requirement and as instructed by Bank Engineer.				
i)	one light/fan controlled by one switch	No.s	42		
ii)	two light controlled by one switch	No.s	23		
iii)	Wall/exhaust fan point with supply of 6A modular MCB in common switch board	No.s	17		
iv)	6A socket & switch at same board	No.s	6		
v)	Fan Point with electronic modular type regulator.	No.s	3		
16	Miscellaneous work: Dismantling, removing of old wires, cables, conduits and fixtures, DBs, panel etc. and supplying temporary power connection to the work stations for functioning of branch. Checking of all electrical gadgets including main panel very carefully and necessary maintenance as and where required. Removing and reinstallation of existing VTPN/TPN/SPN DBs whichever in good and working condition.	Lump sum	1		
GST on on Work Contract will be extra as applicable		Total			