



## BILL OF QUANTITIES

### NAME OF WORK: ELECTRICAL INSTALLATION WORKS AT NEW SILCHAR BRANCH

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
1	<b>Main Panel :-</b> Supplying, Installing, testing and commissioning of fabricated floor mounted cubicle type distribution Panel Board suitable Double Bus bar System (such that DG Set should feed power to UPS VTPN and Lighting MCCBs in case of power failure through on load change over switch) for 415 V comprising of suitable copper bus bars with the following switchgears 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 along with sufficient space for Cable Chamber and Bus Bar Chamber etc., as required.(MCCB Make - Legrands/ Havells/L&T/SIEMENS or equivalent) 1. Main Incomer 630 A 4 P MCCB with overload and short circuit adj protection . 2. 400 A 4 P On Load Change Over switch 3. 400 A 4 P MCCB= 01 nos (for DG Set Incoming )with overload and short circuit adj protection 3. 160 A 4 P MCCB with overload and short circuit adj protection = 02 nos (one for AC and other for UPS VTPN) 4.125 A 4 P MCCB =4 nos( 3 nos for AC VTPN and One spare) 5.40 A 4 P MCCB =04 nos ( All lighting MCCBs)	Set	1		
2	<b>Sub-main line:-</b> Wiring in MS conduit of IS specification of Proper size with core PVC insulated stranded copper wire 11KV grade (Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent) 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 3nos 4sq.mm (1ECC) ii) with 3nos 6sq.mm (1ECC) iii) with 5 nos 6sq.mm (1ECC)	RM	460		
		RM	620		
		RM	270		
3	Supply ,installation ,testing and commissioning of distribution board manufactures made sheet steel enclosure With the following MCBs (DB, MCB and MCCB Make - Legrands/ Havells/L&T/SIEMENS or equivalent) and connecting the same to the system.				

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
i)	Computer/Raw power DB, SPN double door with 40A (30mA)DP RCCB as incomer & 4 nos 10A SP MCB as outgoing.	No.s	12		
ii)	DB with 63A TPN MCB.	No.s	2		
iii)	Lighting DB with 40 A TPN MCB(for lighting at different floors)as incomer & 3 nos 25A SP MCB as outgoing.	No.s	4		
iv)	DB with 63A DP MCB.	No.s	2		
v)	DB with 16A DP MCB.	No.s	2		
vi)	DB with 25 A DP RCCB, 30mA for AC	No.s	27		
vii)	VTPN Double Door Distribution Board with 125A 4 Pole MCCB ( 36kA) as incomer and 10 Nos. 32 A SP MCB's at outgoing	Set	3		
viii)	VTPN Double Door Distribution Board with 160 A 4 Pole MCCB ( 36kA) as incomer and 12 Nos. 32A SP MCB's at outgoing	Set	1		
ix)	VTPN Double Door Distribution Board with 160 A 4 Pole MCCB ( 36kA) as incomer and 3 No. of 63A TPN MCB,4 nos. of 40 A SP MCB, 4 nos. of 32 A SP MCB, 2 nos of 16A SP MCB at outgoing	Set	1		
x)	VTPN Double Door Distribution Board with 125 A 4 Pole MCCB ( 36kA) as incomer and 6 Nos. 32A SP MCB's at outgoing	Set	1		
xi)	Light DB SPN double door with 25 A (30mA)DP MCB as incomer & 3 nos 10A SP MCB as outgoing.	No.s	12		
4	Supplying, installing and commissioning of PVC Armoured cable complete with proper cable glands and two nos. of 8SWG GI wire (Havell's/Richa/RR kebel/KEI or equivalent) alongwith all the other materials required including proper connection in complete as required from main Panel, Power Distribution Board to various DBs .				
ii)	With 3.5 core x 50 sq. mm cable	RM	250		
iii)	With 3.5 core x 300 sq. mm cable	RM	70		
5	Supply, installing and commissioning of earth station including digging and refilling back the pit with black soil and with 3.15mm x300mm size copper plate duly tinned through out the surface of the plate, placed at least 1.5Mtr,below the ground level with 2nos 10sq.mm PVC insulated stranded copper conductor in 20mm GI pipe, fixed to the plate and providing 40mm,2mtr,long GI pipe with reducer and funnel at top for watering pipe with supplying and laying earth continuity wire of 2x10sq.mm copper stranded PVC green color in heavy duty MS conduit on the wall from earth plate to starting point of the line earth connector.	Set	8		

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
6	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(Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent) 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 (Legrands / MK or equivalent) 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	68		
ii)	With 2nos 16A socket with individual switch.	No.s	46		
iii)	With 1nos 16A socket with individual switch.	No.s	30		
7	Supply, installation testing and commissioning of recessed mounted circular LED downlighter with 15W LED lamp. Make :- Bajaj/Havells/Phillips/Wipro/Crompton or equivalent.	Nos	140		
8	Supply, installation testing and commissioning of recessed type LED luminaire with complete PMMA Difuser with 35W LED lamp (size 2"X 2"). Make :- Bajaj/Havells/Phillips/Wipro/Crompton or equivalent	Nos	79		
9	Supply installation testing and commissioning of LED batten Single Tube light fittings with 17W with glare free light distribution wall mounted at ceiling/false ceiling level/. Make :- Bajaj/Havells/Phillips/Wipro/Crompton or equivalent	Nos	36		
10	Supply and installation of Wall Mounted fan 400 mm Metallic body and metallic Blade ,1400 rpm of crompton/bajaj/usha/orient/Havells make or equivalent	No.s	46		
11	Supply and installation of 5 Star rated Ceiling fan 1200 mm crompton/bajaj/usha/havell's make	No.s	4		

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
12	Supply and installation of Heavy Duty metallic body & Blades Exhaust Fan 300 mm crompton/bajaj/usha/havell's make	No.s	5		
13	Supplying, installation, testing & commissioning of Security light with 25W LED lamps with pressure die cast housing with epoxy coated dark graphite grey colour finish and prismatic polycarbonates cover with individual LED lenses, including necessary GI bracket with clamp. Make :- Bajaj/Havels/Phillips/Wipro/Crompton or equivalent	Nos.	6		
14	Wiring for light/fan/exhaust fan points using 3 X 1.5 Sq MM 1.1 kV grade PVC insulated stranded copper conductor wire(Finolex/Havell's/Richa/RR kebel/KEI or equivalent) 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.(MK/Legrand's/Havell's or equivalent), 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 SBIIMS Engineer.				
i)	one light/fan controlled by one switch	No.s	330		
ii)	6A socket & switch at same board	No.s	35		
iii)	Fan Point with electronic modular type regulator.	No.s	4		
<b>GST on work contract will be extra as applicable.</b>				<b>Grand Total( in Rs)</b>	