

**REGIONAL BUSINESS OFFICE, DIBRUGARH (NEW PREMISES)**  
**BOQ for Electrical Installation Works**

SL No	DESCRIPTION	UOM	QTY	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
1	<p><b>a. Main Panel</b> :- Supplying, installing, testing and commissioning of factory fabricated 2MM thick CRCA, floor mounted cubicle type distribution Panel Board with 150 MM X 75 MM X 6MM ISMC base channel, suitable for 415 V TPN comprising of 300A suitable copper bus bars with color coded heat shrink insulation with the followings: 300 A, 4P MCCB, 65 kA with overvoltage protection as incomer, R-Y-B LED indicating lamps, Digital multifunction meter of minimum size 150 MM X 150 MM to measure Voltage, Current, PF etc with all accessories Outgoing: 160 A 4P MCCB, 35kA for AC -2 Nos, 125 Amp 4P MCCB, 35kA for UPS - 2 Nos, 80 Amp 4P MCCB, 35kA for AC- 1 Nos. and 63 Amp 4P MCCB, 35 kA -2 Nos. for External equipment and capacitor panel, - 1Nos. All MCCBs are strictly as specified above only. All outgoing must be in compartmentalized chamber fully isolated with 2 mm thick CRCA and 3 mm steel channel painted with 2 coats of red oxide primer paint followed by finishing paint with interconnection etc. as required.</p>	Set	1		
	<p><b>b. Capacitor Panel:</b> Supply and installation of 30 KVAR APFC panel, floor/wall mounted front operated totally enclosed vermin proof, indoor non-drawout-cubicle type power panel fabricated out of 16 SWG thick CRCA sheet having gasketed hinged cover on each cubicle fully powder coated with suitable bus bar for connecting the contactors, MCB's, Capacitors, etc with the following accessories A set of R-Y-B LED indicating lamp at incomer 63 A, 4P MCCB, 35kA as incomer - 1No 2 No. A 3P contactor for 10 KVAR, 1 Nos. 32A 3P contactor for 5 KVAR, 2 Nos, 25A, 3P contactor for 2 KVAR and 1 No, 16A, 3P contactor for 1 KVAR 2 No. 10 KVAR, 1 Nos. 5 KVAR, 2 Nos. 2 KVAR and 1 No. 1 KVAR. 1 no. 6-step APFC relay of minimum size 150 MM X 150 MM suitable for above arrangement ON/OFF push button for each capacitor ON/OFF LED type indication lamp for each capacitor</p>		1		
2	Sub-main line:- 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 2nos 4sq.mm + 1nos. 1.5sq.mm (1ECC)	RM	380		
	ii) with 2nos 6sq.mm +1nos 4sq.mm (1ECC)	RM	320		
	iii) with 4nos 4sq.mm +1nos 2sq.mm (1ECC)	RM	30		
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.				
	i) Computer/Raw power DB, 8-way, SPN double door with 40A (30mA)DP RCCB as incomer & 6 nos 10A SP MCB as outgoing.	No.s	7		
	ii) DB with 40A/63A DP MCB.	No.s	4		
	iii) DB with 16A DP MCB.(Security light and fire)	No.s	2		
	iv) DB with 32A DP RCCB.	No.s	17		
	v) DB with 40A TPN RCCB.	No.s	2		
	vi) DB with 63A MCB Changeover	Nos.	1		

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vii)	63A MCCB with enclosure for VRF outdoor	Nos.	1		
viii)	4-way, VTPN Double Door Distribution Board with 160 A 4 Pole MCCB (36kA) as incomer and 12 Nos. 32A SP MCB's at outgoing (AC )	Set	1		
ix)	4-way, VTPN Double Door Distribution Board with 125A 4 Pole MCCB (36kA) as incomer and 1 No. of 63A TP MCB , 4 nos. of 40 A SP MCB, 3 Nos. of 32A MCB and 2 nos of 16A SP MCB at out going	Set	1		
x)	Light DB, 8-way, SPN double door with 40A (30mA)DP RCCB as incomer & 5 nos 10A SP MCB as outgoing.	No.s	6		
xi)	Supply & installation of double door 4 way ETPN MCB DB with following accessories a)1 No.63 amp. TPN MCB as incomer, b) 8 Nos. 32A Amps MCB and 2 nos. 16A SP MCB in outgoing	Nos.	2		
xii)	UPS DB, 10-way, SPN double door with 63A DP MCB as incomer & 8 nos 32A SP MCB as outgoing for UPS DB distributor.	No.s	1		
4	Supplying, installing and commissioning of PVC Armored 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 .				
i)	With 3.5 core x 35 sq. mm cable	RM	120		
ii)	With 3.5 core x 50 sq. mm cable	RM	150		
iii)	With 3.5 core x 120 sq. mm cable	RM	120		
5	Supplying, installing and commissioning of 4 core 10 sq.mm Armored copper cable complete with proper cable glands (Havell's/Richa/RR kebel/KEI or equivalent) alongwith all the other materials required including proper connection in complete as required from main Panel to VRF outdoor AC	RM	20		
6	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 finned 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 with proper earth pit.	Nos.	6		
	i) Supplying and fixing 25x3 mm copper strip, insulated by heat pressurized heavy gauge PVC sleeve, duly jointed by full lap brazing and drawn underground in 40 mm class B GI pipe from the inspection pit to the inside of the branch premises.	RM	40		
	ii)Supplying and fixing 2X8 SWG dia copper earth wire in PVC conduit on surface or in recess for loop earthing from panel to DB	RM	150		
7	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 /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	65		

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ii)	With 2nos 16A socket with individual switch.	No.s	58		
iii)	With 1nos 16A socket with individual switch.	No.s	12		
iv)	Table top Pop up Inox 4-module equipped with 1 socket BS and double USB charger 3000mA 2 module type A & Type C	No.s	9		
8	Supply & Fixing of 15Watt commercial down lights of <b>system efficacy &gt;100lm/W</b> . The light should be recessed mounted slim circular type LED panel with <b>die-cast aluminium housing</b> and smooth powder coated finish with anti glare UV stabilized diffuser and separate energy efficient electronic driver having inbuilt surge protection upto 2.5kV. (Make - as in tender make list)	Nos	150		
9	Supply, installation testing and commissioning of surface mounted circular LED downlighter with 15W LED lamp. Make :- Bajaj/Havels/Phillips/Wipro /Crompton or equivalent. (Make - as in tender make list)	Nos	8		
10	Supply and fixing of 2'x2' LED commercial Luminaire of 36 Watt with <b>system efficacy of 110lm/W</b> . 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. (Make - as in tender make list)	Nos	72		
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/. (Make - as in tender make list)	Nos	22		
12	Supply and installation of Wall Mounted fan 400 mm full Metallic body and metallic Blade, 1400 rpm crompton/ bajaj/ usha/ orient make	No.s	35		
13	Supply and installation of 5 star BLD Ceiling fan 1200 mm crompton/ bajaj/ usha/ havells make (Make - as in tender make list)	No.s	10		
14	Supply and installation of heavy duty Exhaust Fan 300 mm crompton/ bajaj/ usha/ havells make	No.s	8		
15	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.	2		
16	Supply and installation of 10 Meter roll 55W, IP20 Flexible LED Strip surface mounted alongwith required LED Driver as back lighting. Havells or equivalent make.	No.s	10		
17	Supply, installation, testing & commissioning of ceiling mounted LED profile downlighter fitting, fixture should have minimum efficacy at System level (Not Chip Level) profile light has 10w – 30w or require 1a to 4 a driver or gives 900 lumens to 2500 lumens. its has all the colors like cool/warm white, Luminaries manufacture shall provide LM79 report from NABL accredited lab & LM80 report issued by LED manufacturer.	RM	60		
18	Wiring for light/fan/exhaust fan points using 3 X 1.5 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/Havel'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 SBIIIMS Engineer.				
i)	Light/fan point (Two downlighter/ 2'X 2" recessed light fittings to be connected through one point)	No.s	140		

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ii)	Light/fan point (four downlighter/ two 2"X 2" recessed light fittings to be connected through one point)		50		
iii)	6A socket & switch at same board	No.s	20		
iv)	Fan Point with electronic modular type regulator.	No.s	10		
v)	16A, 5 pin industrail plug & Socket with 25 A MCB protected (for Safe room & Record room) with 5 meter 3 core 10 sqmm copper wire	Nos.	3		
vi)	Modular type with 6A SP MCB for Exhaust fan and wall fan	No.s	53		
	<b>Total</b>				

GST on work contract will be extra as applicable.