

REGIONAL BUSINESS OFFICE, SIVASAGAR (NEW PREMISES)
BOQ for Electrical Installation and allied Works

SL No	DESCRIPTION	UOM	QTY	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
1	<p>a. Main Panel :- 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 incommmer, 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 excessories Outgoing:100 Amp 4P MCCB, 35kA for AC -1 Nos, 100 Amp 4P MCCB, 63 Amp 4P MCCB, 35kA for AC -2 Nos, 63 Amp 4P MCCB, 35kA for light & Fan - 2 Nos, 63 Amp 4P MCCB, 35kA for Conference room - 1 Nos. 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		
2	<p>Supply, installation, testing & commissioning of Wall / Floor Mounted APFC Panel of 30kVAr, 525V rating with AUTO / MANUAL facility comprising of the followings:- 1No. of 100A, 3 Pole, 25kA MCCB, L&T make, Type DN0-100C, Cat. No. CM9161200KOOG or equivalent of other approved/ acceptable make with thermal Magnetic (O/L & S/C) release, Extended Operating Handle, Aux.+Trip Contacts, R/Y/B/ON/OFF/Trip LED Indications, 6 Step Microprocessor based APFC Relay with single input from 200/5A Resin Cast CT(Class-1.0), 200A AL. busbars of 36kA rating.</p> <p>i) 1Nos. of 15kVAr PFI Capacitor each with 32A, 3P, 10kA, C-curve MCB. Capacitor Duty Contactor (AC6b) for 15kVAr PFIC. MPPH Type Cylindrical Heavy Duty Capacitor 20.3 kVAr, 525V15kVAr, 7% Detuned Reactor, 440V Start/Stop Push Buttons, On/Off Indicating Lamp, 6A SP 10KA MCB, Auto-Manual Switch, etc. j) 1No. of 10kVAr PFI Capacitor each with 25A, 3P, 10kA, C-curve MCB. Capacitor Duty Contactor (AC6b) for 10kVAr PFIC. MPPH Type Cylindrical Heavy Duty Capacitor 13.8 kVAr, 525V 10kVAr, 7% Detuned Reactor, 440V Start/Stop Push Buttons, On/Off Indicating Lamp, 6A SP 10KA MCB, Auto-Manual Switch, etc. ii) 1No. of 10kVAr PFI Capacitor each with 25A, 3P, 10kA, C-curve MCB. Capacitor Duty Contactor (AC6b) for 10kVAr PFIC. MPPH Type Cylindrical Heavy Duty Capacitor 13.8 kVAr, 525V 10kVAr, 7% Detuned Reactor, 440V Start/Stop Push Buttons, On/Off Indicating Lamp, 6A SP 10KA MCB, Auto-Manual Switch, etc. iii) 1Nos. of 5kVAr PFI Capacitor each with 16A, 3P, 10kA, C-curve MCB. Capacitor Duty Contactor (AC6b) for 5kVAr PFIC. MPPH Type Cylindrical Heavy Duty Capacitor 7.5 kVAr, 525V15kVAr, 7% Detuned Reactor, 440V Start/Stop Push Buttons, On/Off Indicating Lamp, 6A SP 10KA MCB, Auto-Manual Switch, etc (Note: The contractor is supposed to supply a branded APFC Panel out of acceptable makes and not a fabricated one)</p>		1		
2	<p>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:-</p>				
	i) with 2nos 4sq.mm + 1nos. 1.5sq.mm (1ECC)	RM	220		
	ii) with 2nos 6sq.mm +1nos 4sq.mm (1ECC)	RM	320		
	iii) with 3 nos 10sq.mm (1ECC)	RM	10		
3	<p>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.</p>				

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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 63A TP/DP MCB.	No.s	2		
iii)	DB with 16A DP MCB.(Security light and fire)	No.s	2		
iv)	DB with 40 A DP RCCB.	No.s	7		
v)	DB with 40A TPN RCCB.	No.s	2		
vii)	80A 4P MCCB with enclosure for VRF outdoor	Nos.	2		
viii)	4-way, VTPN Double Door Distribution Board with 100 A 4 Pole MCCB (36kA) as incomer and 2 nos of 63A TP, 6 Nos. 40 A SP MCB's at outgoing (UPS & Raw Power)	Set	1		
ix)	4-way, VTPN Double Door Distribution Board with 63A 4 Pole MCCB (36kA) as incomer and 12 nos of 40 A SP MCB.(Light & and fan)	Set	2		
x)	Light DB, 8-way, SPN double door with 40A (30mA)DP RCCB as incomer & 6 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) 10 Nos. 40A Amps MCB outgoing	Nos.	1		
xii)	UPS DB, 10-way, SPN double door with 63A DP MCB as incomer & 8 nos 40A SP MCB as outgoing for UPS DB distributor.	No.s	1		
xiii)	200A 4P Onload chnageover with enclosure.	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 25 sq. mm cable	RM	160		
i)	With 3.5 core x 35 sq. mm cable	RM	80		
ii)	With 3.5 core x 50 sq. mm cable	RM	80		
iii)	With 3.5 core x 120 sq. mm cable	RM	80		
iii)	With 3.5 core x 150 sq. mm cable	RM	40		
5	Supplying, installing and commissioning of 4 core 25 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	40		
6	Supplying, installing and commissioning of 4 core 16 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 UPS VTPN to UPS INPUT	RM	10		
7	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 UPS VTPN to UPS INPUT	RM	50		
8	Supply, installing and commissioning of earth station including digging and refilling back the pit with black soil and with 3.15mm, 300x300mm size copper plate duly finned through out the surface of the plate, placed at least 2 Mtr,below the ground level with 2 nos 25x3 mm copper strip, 40 mm 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 in heavy duty 2 nos 25x3 mm on the wall from earth plate to starting point of the line earth connector with proper earth pit with brick and motar.	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.(earthing pit to main panel)	RM	60		
	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	200		

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9	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	58		
ii)	With 2nos 16A socket with individual switch.	No.s	50		
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	11		
10	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. (Make - as in tender make list)	Nos	130		
11	Supply, installation testing and commissioning of surface mounted circular LED downlighter with 15W LED lamp. Make :- Bajaj/Havells/Phillips/Wipro /Crompton or equivalent. (Make - as in tender make list)	Nos	15		
12	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. (Make - as in tender make list)	Nos	90		
13	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	15		
14	Supply installation testing and commissioning of 10 W fixed track LED light with modern design, compact size with high power COB LED to provide focussed light . Make: Havells(Model:UNECOTRACKLIGHTS 10WLED830S15WHT/BLK or similar design and specification approved by Bank's Engineer.)	Nos	10		
15	Supply and installation of Wall Mounted fan 450 mm full Metallic body and metallic Blade, 1400 rpm crompton/ bajaj/ usha/ orient make	No.s	25		
16	Supply and installation of 5 star BLD Ceiling fan 1200 mm crompton/ bajaj/ usha/ havells make (Make - as in tender make list)	No.s	4		
17	Supply and installation of heavy duty Exhaust Fan 300 mm crompton/ bajaj/ usha/ havells make	No.s	11		
18	Supplying, installation,testing & commissioning of Security ligh 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/ Havells/ Phillips/ Wipro/ Crompton or equivalent	Nos.	5		
19	Supply and installation of 5 Meter roll 55W, IP20 Flexible LED Strip surface mounted alongwith required LED Driver as back lighting. Havells or equivalent make.	No.s	20		
20	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 24w – 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.(Conference room)	RM	60		

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21	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		
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	4		
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 with ceiling rose.	No.s	35		
vii)	Electronic Timer for alternate operation of Exhaust Fan at UPS Room	No.s	1		
Sub Total-A					
LAN NETWORK					
19	Supply, Installation, commissioning & Testing dual port of LAN I/O box (CAT 6)	No.s	50		
20	Supply of CAT-6 LAN cable(4 pair) (305 Meter per box)	No.s	5		
21	Supply, installation & Testing of company Made CAT 6 Patch cord with RJ 45(Company make)				
	1 Meter length	No.s	50		
	2 Meter length	No.s	25		
22	Laying, instllation & testing of LAN cable in PVC conduit from switch to each node.	RM	1350		
23	Supply, Installation & Testing CAT-6 patch panel of 24 Port	No.s	2		
24	supply and installation of wall mounting server 12 U steel rack	No.s	2		
Sub Total-B					
Sub Total-B					
Grand Total(A+B)					

GST on work contract will be extra as applicable.

Note: The Contrator should provide the LAN Diagram and Electrical Single Line Diagram after completion of work.