

Chedema Branch
BOQ for Electrical & Air Conditioning Installation Works

Sl.No	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
1	a) Main Panel :- Supplying, Installing, testing and commissioning of fabricated floor mounted cubicle type distribution Panel Board suitable for 415 V comprising of suitable copper bus bars, 160A 4P MCCB as incoming and 1 Nos of 63A 4P MCCB, 1 Nos. of 63 A MCCB and 2 no. of 40A 4P MCB 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.(MCCB Make - Legrands/Havells/L&T/SIEMENS or equivalent)	Set	1		
	b) APFC Panel:- Supplying, Installing, testing and commissioning of 5 kVAR APFC panel floor/wall mounted front operated totally enclosed vermin proof indoor non drawout 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 32A TPN MCB C-type as incomer-01 no., 2 nos. 20A 3P contactor for 2 kVAR and 1 nos. 16A 3P contactor for 1 kVAR with 2 nos. 2KVAR and 1 no. 1KVar capacitor alongwith 5 step APFC relay. The panel should have On/OFF push button for each capacitor with respective ON/OFF indication LED lamp (Make - as in tender make list)	set	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) (AC)	RM	90		
ii)	with 2nos 6sq.mm +1nos 4sq.mm (1ECC)	RM	60		
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, SPN double door with 40A (30mA)DP RCCB as incomer & 5 nos 10A SP MCB as outgoing.(for raw and UPS)	No.s	2		
ii)	DB with 16 A DP MCB(Sinage/Security light)	Nos.	2		
iii)	DB with 32 A DP MCB (for UPS)	No.s	4		
iv)	DB with 32A MCB Changeover	Nos.	1		
v)	DB with 32A DP RCCB.	No.s	1		
vi)	VTPN Double Door Distribution Board with 63A 4 Pole MCCB (36kA) as incomer and 1 No. of 40A SP MCB ,8 nos. of 32 A SP MCB, 2 nos of 16A SP MCB at outgoing	Set	1		
vii)	VTPN Double Door Distribution Board with 63A 4 Pole MCCB (36kA) as incomer and 8 nos. of 25 A SP MCB, 2 nos of 16A SP MCB at outgoing	Set	1		
viii)	Light DB SPN double door with 40A (30mA)DP RCCB as incomer & 6 nos 10A /6A SP MCB as outgoing.	No.s	1		

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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	60		
ii)	With 3.5 core x 50 sq. mm cable	RM	50		
5.a)	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	2		
b)	Maintenance Free Chemical Earth Stations: The items listed below shall be undertaken directly by Agencies providing Ashlock/ or True Power or, equivalent of approve Make Chemical earthing, The contractor shall provide the rates of getting the same executed by the agency. The representative of the agency shall measure and submit the test report of the earth directly to the branch and one copy to the Elect. Engr. along with their bill. The agency may also require to test and provide the test report of the earthing measurement if required to the branch and Elect. Engr. for monitoring upto a period of three years.				
i)	Supply and installation of pipe-in-pipe technology Ashlok Earthing / True Power system or equivalent of approve make Model T-19 with outer diameter of 50 mm, length 2000 mm embedded in the soil with masonry inspection pit with cover , which can be easily removed and placed. complete in all respect. Earth pit installation test certificate to be submitted after measurement of earth resistance as per the provision in IS3043. (UPSs and Panel earthing)	Set	2		
ii)	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	20		
iii)	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	40		

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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	12		
ii)	With 2nos 16A socket with individual switch.	No.s	8		
iii)	With 1nos 16A socket with individual switch.	No.s	4		
vi)	Modular 5 pin Socket With 20A SP MCB protected switch(Each Table for Power Plug).	No.s	6		
7	Supply, installation testing and commissioning of recessed mounted circular LED downlighter with 15W LED lamp. Make :- Bajaj/Havels/Phillips/Wipro/Crompton or equivalent. (Model: Havells INTEGRANTDLR15WLED857S TR or Equivalent specification)	Nos	36		
8	Supply, installation testing and commissioning of surface mounted circular LED downlighter with 15W LED lamp. Make :- Bajaj/Havels/Phillips/Wipro/Crompton or equivalent. (Model: Havells GLOWDLS15WLED830S or Equivalent Specification)	Nos	6		
9	Supply, installation testing and commissioning of recessed type LED luminaire with complete PMMA Difuser with 42W LED lamp (size 2"X 2")(Model:PLUTONEO2X2PLR42WLED857S or equivalent) . Make : Bajaj/ Havels/ Phillips/ Wipro/ Crompton or equivalent	Nos	16		
10	SSupply and installation of 5 SATR Ceiling fan 1200 mm crompton/bajaj/ usha/ havells make	No.s	1		
11	Supply and installation of Wall Mounted fan 400 mm Metallic body and metallic Blade ,1400 rpm Havels FHWV3TFSLB18 or equivalent of crompton/bajaj/usha/orient make	No.s	6		
12	Supply installation testing and commissioning of LED batten Single Tube light fittings with 20W (Model: Havells LUMILINEBS20WLED865SPCWH or equivalent Specification) with glare free light distribution wall mounted at ceiling/false ceiling level/. Make :- Bajaj/ Havels/ Phillips/ Wipro/ Crompton or equivalent	Nos	12		
13	Supply and installation of Exhaust Fan 300 mm crompton/bajaj/usha/havell's make	No.s	5		
14	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/Havels/Phillips/Wipro/Crompton or equivalent	Nos.	4		
15	Supply and Installation of 10 meter roll 55W, IP20 flexible LED strip surface mounted along with required LED driver as back lightinh Havells or eqivalent make.	Nos.	5		

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16	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 SBI Engineer.				
i)	one switch control one light/fan point	No.s	25		
ii)	one switch control two light/fan point	No.s	20		
iii)	6A socket & switch at same board	No.s	5		
iv)	16A, 5 pin industrail plug & Socket with 20 A MCB protected (for Safe room & Record room)	Nos.	2		
v)	Modular type DB with 6A/9A SP MCB.(for wall fan and exhaust fan)	No.s	11		
vi)	Fan Point with electronic modular type regulator.	No.s	1		
17	Installation charges of the 1.5TR Split AC including outdoor frame / stands to withstand the full load of outdoor units and making good all the damage.	No.s	1		
18	Supply and Installation of 4 KVA Stabilizer for 1.5 TR Split type Acs	No.s	1		
19	AIR CONDITIONING WORK				
i)	Supply of 1.5 TR Capacity Hi Wall mounting Hot & Cool 3-star rated Inverter Split AC with cordless remote and Copper Condensor Coil. AC Make, Voltas/Bluestar /Carrier/Daikin /LG/Godrej with 3 meter copper pipe	No.	1		
				Total	