

BOQ for Electrical Installation Works for ALTERNATIVE PREMISES FOR COMMERCIAL BRANCH

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST)	Amount (Rs.) (Exclusive of GST)
1	Wiring for light/fan/exhaust fan points using 3 X 1.5 1.1 kV grade PVC insulated stranded copper wire FRLSH grade (Finolex/Havell's/RR kabel/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 Bank Engineer.				
	i) one light/Call Bell point controlled by one switch	Nos.	160		
	ii) Secondary/ Loop light (only for LED down lights)	Nos.	150		
	iii) 6A socket & switch at same board	Nos.	20		
	iv) Fan Point with electronic modular type regulator.	Nos.	1		
	v) Light points on UPS Power for emergency	Nos.	29		
	vi) Exhaust Fan controlled by one switch	Nos.	12		
	Computer Point/Raw Power/P- Indoor A/C Unit wiring				
2	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 (Legrand's / 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 two points in single circuit) all tables except AGM, CM and Manager will have single UPS and Raw power Points				
	i) With 3nos 6A socket with single 16A switch. [SOC]	Nos.	60		
	ii) With 2nos 16A socket with individual 16A switch. [SOR]	Nos.	25		
	iii) With 1nos 16A socket with individual 16A switch. [P _{IDU}]	Nos.	25		
3	Supply and fixing of 4 module pop up box along with 6A switch, socket and HDMI/LAN connector	Nos.	9		

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST)	Amount (Rs.) (Exclusive of GST)
4	Wiring for plug points for 16amp Power Socket Outlet Point in a circuit as above using 2x4 + 1x4 sqmm 1.1 KV Grade PVC insulated stranded copper conductor wire for phase, neutral and earth, controlled by a Modular Plate Type 16 Amp switch and a 6 pin 16 amp convenient power outlet for power outlets (switch/socket as well as Boards to be provided by the contractor) including 25mm dia MS conduit along with associated accessories like MS junction boxes, bends, saddles, screws, etc. concealed in wall, floor, under flooring, below false ceiling as well as suspended from ceiling with 25mm x 3mm MS flat suspenders duly painted above false ceiling from individual light point outlet, etc. to individual switch boards in suitable size 16 SWG MS boxes fixed in concealed manner as directed. [P]	Nos.	10		
5	Sub-main line:- Wiring in MS conduit of IS specification of Proper size with core PVC insulated stranded copper FRLSH wire 11KV grade (Finolex/Havells/Polycab/ RR Kabel/ Gloster/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 10sq.mm and 1 nos. 10 sqmm (1ECC)	RM	150		
	ii) with 4nos 6sq.mm and 2 nos. 6 sqmm (2ECC)	RM	135		
	iii) with 4nos 10sq.mm and 2 nos. 10 sqmm (2ECC)	RM	160		
	iii) with 4nos 16sq.mm and 2 nos. 16 sqmm (2ECC)	RM	210		
6	CABLE:- Supplying, installing and commissioning of PVC Armored AI cable complete with proper cable glands and two nos. of 8SWG GI wire (Havell's/Finolex/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 50 sq. mm cable	RM	40		
	ii) With 3.5 core x 185 sq. mm cable	RM	45		
7	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) 2Nos. 250 amp ,4P ,36KA MCCB with control fuses three LEDs R,Y,B.(APDCL) along with ammeter & Voltmeters of relevant range and selector switch, ii) OUTGOING: a) 480 amp Electrolytic Aluminium double busbar system i) 3 nos. 100A 4P MCCB of 25 kA on main bus ii) 1 nos. 63A 4P MCB, iii) 6nos. 40A 4P MCB, iv) 3Nos. 32A DP MCB, v) 4Nos. 25A 4P MCB	Set	1		

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8	APFC Panel:- Supplying, Installing, testing and commissioning of 40 kVAR APFC panel floor/wall mounted front operated totally 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 100A 4P 25KA MCCB as incomer-01no., 1 nos. 40A 3P contactor for 10KVAR, 5 no. 32A 3p contactor for 5kVAR, 2 nos. 25A 3P contactor for 2 kVAR and 16A 3P contactor for 1 kVAR with 1 no. 10 KVAR, 5 nos. 5KVAR, 2 nos. 2KVAR and 1 no. 1KVar capacitor alongwith 10 step APFC relay. The panel should have On/OFF push button for each capacitor with respective ON/OFF indication LED lamp	Set	1		
	MCBDB				
	Supplying, installation, testing and commissioning of surface/recess mounting, 220/415 volts prewired MCB distribution boards with all switchgears as specified below, of sheet steel, dust protected, duly phosphatized and powder painted, inclusive of 200 amps tinned uniformly rated electrolytic copper bus-bar, common neutral link, earth bar, din bar for mounting MCB/MCCB/RCCBs detachable gland/knock out plates and with built in loose wire box, and superior make terminal connectors for all incoming and outgoings circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/neutral link and ready for installation as specified below:(DB, MCB and MCCB Make - Legrands/ Havells/L&T/SIEMENS or equivalent) .				
9	TPDB-(8WAY TPN, VERTICAL TYPE FOR ACDB)	Each	2		
	8way VTPN TPN DB IP 43 IK 09 with metal Doors - 1 No.				
	Incomer				
	100A 4P 25 KA MCCB - 1 No.				
	Outgoing				
	63A TP 10 KA MCB - 2 Nos.				
	6/10A SP 10 KA MCB - 18 Nos.				
10	MCBDB RAW POWER-1, MCBDB RAW POWER-2, MCBDB RAW POWER-3 AND MCBDB-RAW POWER-4 for RAW AND POWER	Each	4		
	4way HORIZONTAL TPN DB IP 43 IK 09 with metal Doors - 1 No.				
	Incomer				
	40A 4P 10 KA MCB - 1 No.				
	Outgoing				
	10A SP 10 KA MCB - 6Nos.				
	16A SP 10 KA MCB - 6Nos.				
11	MCBDBL-1, MCBDBL-2, MCBDBL-3 AND MCBDBL-4 for LIGHT AND FAN etc.	Each	4		
	4way 7 SEGMENT TPN DB IP 43 IK 09 with metal Doors - 1 No.				
	Incomer				
	25A 4P 10 KA MCB - 1 No.				
	25 DP RCCB 30mA Sensitivity- 3Nos.				
	Outgoing				
	6A SP 10 KA MCB - 12Nos.				
12	MAIN MCBDB UPS-1, for UPS	Each	1		
	4way HORIZONTAL TPN DB IP 43 IK 09 with metal Doors - 1 No.				
	Incomer				

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	63A 4P 10 KA MCB - 1 No.				
	Outgoing				
	25A SP 10 KA MCB - 5Nos.				
	40A SP 10 KA MCB - 4Nos.				
13	MCBDB-UPS-1, MCBDB-UPS-2, MCBDB-UPS-3 AND MCBDB-UPS-4 for UPS SOCKET OUTLET	Each	4		
	12way SPN DB IP 43 IK 09 with metal Doors - 1 No.				
	Incomer				
	40A SP 10 KA MCB - 1 No.				
	40 DP RCCB 100mA Sensitivity- 1No.				
	Outgoing				
	10A SP 10 KA MCB - 8Nos.				
14	4 Pole One way enclosure with 63A 4P 10 KA MCB [for UPS I/P & O/P]	Each	2		
15	4 Pole One way enclosure with 63A 4P 10 KA MCB [for ODU AIRCONDITIONER]	Each	4		
	EARTHING				
16	Supply, installing and commissioning of earth station including digging and refilling back the pit with black soil and with 3.15mm x600mmX600mm size copper plate duly tinned through out the surface of the plate, placed at least 3.0 Mtr,below the ground level with 1no. 25x3 mm copper conductor in 40mm GI pipe, fixed to the plate and providing 40mm,3.2 mtr,long GI pipe with reducer and funnel at top for watering pipe.	Set	4		
17	Supplying and fixing 40x5 mm G.I. 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 including supply of 2 nos. G.I. earth Busbar of 300mm LONGx40mmx6 mm size on insulators.	Mtr	80		
18	Supplying and fixing 4 Sq mm copper earth wire in PVC conduit on surface or in recess for loop earthing from panel to DB	Mtr	160		
	LIGHTING FIXTURES AND FAN				
19	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:-Phillips Model:-DN296B LED 15S-6500 PSE WH S2 (Jaquar/Havels/Wipro/Crompton/Jaquar or equivalent). [DL]	Nos	163		
20	Supply & Fixing of 12Watt commercial down lights of system efficacy >100lm/W. The light should be Surface 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:-Phillips Model:-SM250/260 LED 12S-6500 PSE WH (Jaquar/Havels/Wipro/Crompton/Jaquar or equivalent). [CL]	Nos	11		

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21	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:-Phillips Model:-RC380 LED 36S-6500 G6 L60W60 PSU OD S1(Jaquar/Havels/Wipro/Crompton/Jaquar or equivalent). [CLS]	Nos	99		
22	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:-Phillips Model:-BN021C LED 20S-PSU CW GR S2 (Jaquar/Havels/Wipro/Crompton/Jaquar or equivalent). [TL]	Nos.	33		
23	Supply and Fixing of COB lights having swivel operation (adjustable angle position) and of minimum 6W, 3000K having lumen efficacy 100Lm/W with integrated heat sink. The body material should be powder coated die cast aluminium Make:-Phillips Model:-RS262B LED 6S/86S-PSU MB WH (Jaquar/Havels/Wipro/Crompton/Jaquar or equivalent). [COB]	Nos.	11		
24	Supply and fixing of LED Flexible strip light in 5 mtr length with 25W non integral energy efficient driver having inbuilt surge protection upto 4.0kV. Make:-JAQUAR Model:- STI-WHT-LSTP03X005XW LED 25WATT (PHILIPS/Havels/Wipro/Crompton/Jaquar or equivalent). [LSP]	Nos.	40		
25	Supply and installation of 5 Star rated BLDC Ceiling fan 1200 mm crompton/bajaj/usha/havell's make	No.s	1		
26	Supply and installation of Heavy Duty metallic body & Blades Exhaust Fan 300 mm crompton/bajaj/usha/havell's make. [EF]	No.s	11		
27	Supply and installation of Call Bell Buzzar Make: Anchor Pearl Door Bell 8691	Nos.	1		
28	Marking/stickering/painting of electrical DBs,SFU,and individual circuit in UPS DB,LDB, ACDB of switch board and UPS power etc. and submission of 3 nos. prelaminated as built Single line drawing(SLD) of power distribution system of the Branch/ office	Ls	1		
GST on work contract will be extra as applicable.			Total		