

STATE BANK OF INDIA

Price bid for Electrical installation work

AT HAYULIANG, ARUNACHAL PRADESH

Sl. No.	Description of Item	Unit	Quantity	Rate	Amount
1.	Wiring for Light/Fan/Exhaust Fan points using 3x1.5 sqmm 1.1 KV Grade PVC insulated stranded copper conductor wire for phase, neutral and earth in 2mm thick heavy duty MS conduit along with associated accessories like junction boxes, bends, saddles, screws, etc. concealed in wall, floor, under flooring, below false ceiling or on surface as well as suspended from ceiling with 25mm x 3mm MS flat suspenders duly painted above false ceiling from individual Light/Fan/Exhaust Fan point outlet, etc. to individual modular type switch boards, 6 Amp . modular plate type switches etc. as required complete including circuit wiring with 2x2.5 + 1x2.5 sqmm 1.1 KV Grade PVC insulated stranded copper conductor wire and as per site requirement and as instructed by Engineer.				
1.1	Light Point / Wall Fan/Call Bell Point	Set	63		
1.2	Secondary/Loop Light Point	Set	19		
1.3	Fan Point with Step Modular type Regulator	Set	8		
1.4	Exhaust Fan Point with ceiling rose	Set	12		
2.	Computer Point/Raw Power wiring				
	Wiring for Modular type Socket points with Modular type Switch including supply of the switch and socket in MS conduit of IS specification of proper size with 3 nos of 2.5 sqmm single core PVC insulated stranded copper wire 1.1 KV grade and with all material supply installation and commissioning complete from MCB Distribution Board. The wiring shall be carried out on surface above false ceiling by chiselling the existing surface and plastering the existing surface and plastering the same with cement etc. after fixing the conduit with all accessories like saddles, screws, bends T joints etc. 2 coat of painting matching to the surface including supply installing, testing and commissioning of modular plate type switch and socket 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.				
2.1	With 3 nos of 2/3 pin combined 6A socket with single 16 A switch. [SOC]	Each	14		
2.2	With 2 nos. 3pin combined shuttered 6/16A socket with single 16A switch. [SOR]	Each	12		
2.3	With 1 no. 3 pin combined shuttered 6A socket with individual 6A switch on the existing switch Board. [SO]	Each	11		
2.4	16A, 5 pin industrail plug & Socket with 25 A MCB protected (for Safe room & Record room)	Nos.	3		
3.	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]	Each	9		

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4.	Wiring with 1.1 KV Grade PVC insulated ISI marked stranded copper conductor wire for phase, neutral and earth including MS conduit, junction boxes, bends, saddles, screws, etc. concealed in wall, floor, under flooring, below false ceiling or on surface as per site requirement and as instructed by Engineer.				
	4.1 2x1.5 + 1x1.5 sqmm	Metre	20		
	4.2 2 X 4 + 1x4 Sq. mm	Metre	120		
	4.3 2 X 6 + 1x6 Sq.mm	Metre	180		
	4.4 2 X 10 + 1x10 Sq.mm	Metre	70		
5.	Supplying, installing and commissioning of PVC ArmoUred cable complete with cable glands and two nos of 8SWG GI wire.				
	5.1 With 3.5 core x 95 Sqmm cable	Mtr	60		
	5.2 With 3.5 core x 50 Sqmm cable	Mtr	60		
	5.3 With 3.5 core x 35 Sqmm cable	Mtr	60		
6.	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 finned 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:				
	6.1 MAIN TPDB [VTPN] for AC	Each	1		
	8way VTPN TPN DB IP 43 IK 09 with metal Doors - 1 No.				
	Incomer				
	100A 4P 25KA MCCB - 1 No.				
	Outgoing				
	32A TP 10 KA MCB - 6 Nos.				
	40A SP 10 KA MCB - 3Nos.				
	6.2 MCBDB 8 way SPN DB - MCBDB/RAW-1G AND MCBDB/RAW-1F	Each	2		
	8way SPN DB IP 42 IK 09 with metal Door - 1 No.				
	Incomer				
	40 Amp DP 10 KA MCB - 1 No.				
	40A DP RCCB 100mA/30 mA sensitivity with nuisance protection - 1 no.				
	Outgoing				
	10/16A SP 10 KA MCB -4 Nos.				
	6.3 MCBDB 8 way SPN DB - MCBDB/UPS for Ground and First floor	Each	2		
	8way SPN DB IP 42 IK 09 with metal Door - 1 No.				
	Incomer				
	32 Amp DP 10 KA MCB - 1 No.				
	32A DP RCCB 100mA/30 mA sensitivity with nuisance protection - 1 no.				
	Outgoing				
	10/16A SP 10 KA MCB - 4 Nos.				
	6.4 MCBDB 16 way SPN DB - MCBDBL-1G AND MCBDBL-1F for LIGHT & FAN	Each	2		
	16way SPN DB IP 42 IK 09 with metal Door - 1 No.				
	Incomer				
	40A DP MCB - 1 No.				
	Outgoing				

Sl. No.	Description of Item	Unit	Quantity	Rate	Amount
	40A DP RCCB 100mA/30 mA sensitivity - 1 no.				
	6A SP 10 KA MCB - 12 Nos.				
6.5	MCBDB 4 way SPN DB - MCBDB/EXT-1G	Each	1		
	8way SPN DB IP 42 IK 09 with metal Door - 1 No.				
	Incomer				
	32 Amp DP 10 KA MCB - 1 No.				
	Outgoing				
	10/16A SP 10 KA MCB -3Nos.				
6.6	MAIN TPDB [VTPN]	Each	1		
	8way VTPN TPN DB IP 43 IK 09 with metal Doors - 1 No.				
	Incomer				
	100A 4P 25KA MCCB - 1 No.				
	Outgoing				
	32A TP 10 KA MCB - 2 Nos.				
	40A SP 10 KA MCB - 5Nos.				
	25A SP 10 KA MCB - 3Nos.				
6.7	2 Pole One way enclosure with 32A DP 10 KA MCB (ups)	Each	4		
6.8	2 Pole One way enclosure with 32A DP RCCB 100mA/30 mA sensitivity	Each	6		
6.9	2 Pole One way enclosure with 16A DP 10 KA MCB	Each	2		
6.10	2 Pole One way enclosure with 32A DP Changeover MCB (ups)	Each	1		
	MAIN LT PANEL				
7.	a) Supplying and installation of metal enclosed wall/ floor mounted front operated cubical type switch gear panel suitable for indoor installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall incorporate double busbar system. The bus bar shall be of high quality copper of uniform cross section. The panel shall consist of the following items (viz. voltmeter, ammeter, CT, indicating lamps, selector switch etc.) connected as per drawing and shall be flush mounted on the front of the panel.	Each			
	Incommer:				
a)	200 Amps 4P MCCB, 25 KA -1no.				
b)	160 Amps 4P onload chnageover				
	Busbar				
b)	Busbar : 320 Amps TPN Electrolytic Copper Uniformly rated Copper Busbar (40mmx5mm) -1 set				
	Outgoings:				
c)	100 Amps 4P MCCB, 25 KA - 2no.				
d)	63 A 4P MCB -2 Nos.				
e)	40A DP MCB - 2 Nos.				
f)	Ammeter, Voltmeter, CT, Indicating Lamps, Phase Selector Switch, Sliding type 5A HBC Fuse Unit - 2 sets				

Sl. No.	Description of Item	Unit	Quantity	Rate	Amount
	<p>b) Capacitor Panel: Supply and installation of 20 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</p> <p>A set of R-Y-B LED indicating lamp at incomer 63 A, TPN MCCB, 35kA as incomer - 1No</p> <p>1 Nos. 40A 3P contactor for 10 KVAR,</p> <p>1 Nos, 30 A, 3P contactor for 5 KVAR, 2 Nos, 25A, 3P Contactor for 2 KVAR and</p> <p>1 No, 16A, 3P contactor for 1 KVAR</p> <p>1 Nos. 10 KVAR, 1Nos. of 5 KVAR, 2 Nos. 2 KVAR and 1 No. 1 KVAR.</p> <p>1 no. 6-step APFC relay of minimum size 150 MM X 150 MM suitable for above arrangement</p> <p>ON/OFF push button for each capacitor</p> <p>ON/OFF LED type indication lamp for each capacitor"</p>	Each	1		
8.	Supply, installing and commissioning of earth station including digging and refilling back the pit with black soil and with 3.15mm x 300mm size copper plate duly tinned through out the surface of the plate, placed at least 1.5 mtr. Below the ground level with 2 nos. 10 sqmm PVC insulated stranded copper conductor in 20mm GI pipe, fixed to the plate and providing 40mm, 2 mtr. long GI pipe with reducer and funnel at top for watering pipe with supplying and laying earth continuity wire of 2 x 10 sqmm 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	5		
9.	Supply, installation testing and commissioning of recessed type LED luminaire with complete PMMA Difuser with 36 W LED lamp (size 2"X 2")(Model:Plano or equivalent) . Make : Bajaj/ Havels/ Phillips/ Wipro/ Crompton or equivalent	Nos.	20		
10.	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 INTEGRANXTDLR15WLED857S TR or Equivalent specification)	Nos.	25		
11.	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.	15		
12.	Supply, installation and testing of Striplites INDOOR CHANNEL suitable for LED tube with long lasting body with slim and sleek look and end caps of make CROMPTON Cat No. CCS-100-20-65-HL2-DP-NWH Model-BRIGHT LINEA with 1X20WATT LED Lamp or equivalent including lamps as required complete [TL].	Nos.	28		
13.	Supply Installation testing and commissioning of all in one Solar Lantern Streetlight with surface mounting pole (4mtr.) made Hot Dip galvanised with a luminaire having 20 watt with high efficiency Monocrystalline Solar panel, lithium ferro phosphate battery, silicon encapsulates with high efficiency MPPT Charge controller, aluminium extruded body, and automatically control the dimming and brightness of light, which increase the back up. Make Crompton /Havells/ model CSADSMPT20CDL-NC/SOLAR AIO 20W . The pole is coated with epoxy zinc phosphate primer and finished with polyurethane based paint including wiring etc. as required complete. The pole to be erected in cement concrete foundation of 1:2:4.	Nos.	3		

Sl. No.	Description of Item	Unit	Quantity	Rate	Amount
14.	Supplying and fixing Call Bell (Buzzer) of make: Anchor Cat No. Pearl Door Bell 8691 or equivalent including 5 amps capacity button and piano type bell push switch of reputed make including connections etc. as required. [CB]	Nos.	1		
15.	Supplying of BLDC 1200 mm sweep Ceiling fan of make HAVELLS Cat/Brand Cat/PACER Ceiling Fan of colour White, Brown or Bianco complete with down rod or equivalent etc. [F]	Each	8		
16.	Supplying of 450 mm sweep Wall fan with metallic blade and body of make CROMPTON/HAVELLS Cat/Brand Swing Wall Fan complete with all accessories or equivalent etc. [WF]	Each	6		
17.	Supplying of 300 mm sweep exhaust fan of make HAVELLS Cat/Brand VENTIL AIR -DS complete with all accessories complete or equivalent. [EF]	Nos.	8		
18.	Supplying and fixing of Fan hook/fastener.	Each	8		
	Sub-Total(A)				
	Air Conditioning Work				
19	Supply Installation testing and Commissioning of 1.5 TR Capacity Hi Wall mounting 5-star rated Inverter Split AC with cordless remote and Copper Condenser Coil. AC Make, Voltas/Bluestar /Carrier/Daikin /LG/Godrej(INCLUDING 3 M COPPER PIPES)(refrigerant (R32 or R 410A)	Nos.	1		
20	Supply Installation testing and Commissioning of 1.0 TR Capacity Hi Wall mounting 5-star rated Inverter Split AC with cordless remote and Copper Condenser Coil. AC Make, Voltas/Bluestar /Carrier/Daikin /LG/Godrej(INCLUDING 3 M COPPER PIPES)(refrigerant (R32 or R 410A)	Nos.	1		
21	Supply Installation testing and Commissioning 2.0 TR 4-way Cassette Type Inverter AC, 5 STAR with Copper Condenser Coil and refrigerant (R32 or R 410A) Indoor unit ceiling hung comprising cooling coil, evaporator fan with motor, filters, insulated drain pan, drain pump, expansion valve, refrigerant filter drier with codeless remote control unit, etc. Outdoor unit comprising single phase hermetically sealed scroll / rotary compressors, condenser coil with fan & motor, starters / controls / cutouts / relays etc., mounted inside a powder coated sheet metal cabinet of 2mm thick, duly treated for corrosion protection complete, mounted on ribbed rubber pads. AC Make, Voltas/Blue Star/Carrier/Daikin /LG"	No.	4		
22	For 2.0/3.0 TR Copper Cassette type split air conditioners: Supply and laying of copper pipes, drain pipes (covered with GI pipes wherever necessary), copper wiring in GI conduits neatly drawn in professional manner from power points to outdoor / indoor units complete with all necessities and making good all the damages.	RM	40		
23.	For 1.0 TR/1.5 TR Hi-Wall type split air conditioners: Supply and laying of copper pipes, drain pipes (covered with GI pipes wherever necessary), copper wiring in GI conduits neatly drawn in professional manner from power points to outdoor / indoor units complete with all necessities and making good all the damages.	RM	5		
24.	Supply and Installation of 5 KVA Stabilizer for 1.0/1.5/2.0 TR Split type Acs(voltage range 120V to 270V)	Nos.	6		
	Sub-Total (B)				
	Grand Total(A+B)				

GST on work contract will be extra as applicable.