

Date:

AIR CONDITIONING WORKS AT ANANTAPUR MAIN BRANCH**Estimate for Electrical Installation Works**

Sl.No.	Description	UOM	Qty.	Rate (Rs.)	Amount (Rs.)
2	Supply ,installation ,testing and commissioning of AC DB: VTPN DB – IP 43-1K 09 - approved make) comprising of 200 A 4P MCCB of breaking capacity 35KA at incoming and 3 No. 63 A TPMCB (for individual 11.0 & 7.5 TR ductable AC incomers) with inter connection in PVC insulated color coded wire in PVC conduit cable socket including loop earth connection to earth bus bars etc. all complete including mending good the damage and painting. The MCCB should have adjustable overload setting With load/line interchangeability with thermo magnetic /static release.	No.s	1		
3	Supply, installation, testing and commissioning of TPN Light DB: TPN DB with 63 A 4P MCB as incomer and 12 no. 10/16 A SPMCBs at outgoing Note: Connection need to taken from existing Essential services DB by introducing additional 63A TP Mcb if needed	No.s	1		
4	Supply, installation, testing and commissioning of DB with 63A TP MCB for ductable AC input control (11 TR capacity)	No.s	3		
5	Supply, installation, testing and commissioning of DB with 63 A 4P MCB for master control of lights at entrance gate	No.s	1		
6	Sub-main line Wiring: Wiring in PVC conduit of IS specification of Proper size with core PVC insulated stranded copper wire 1.1 KV grade and with all materials supply ,installation connection complete as per circuit diagram and as required from main DB to various DBs: With 3nos 6sq.mm (Phase, Neutral and Earth) from -UPS to UPS out going Dbs -UPS outgoing DB to UPS computer DB -TPN light DB to SPN light DBs TPN Raw power DB to SPN Raw power DBs	RM	150		
7	Sub-main line Wiring: Wiring in PVC conduit of IS specification of Proper size with core PVC insulated stranded copper wire 1.1 KV grade and with all materials supply ,installation connection complete as per circuit diagram and as required from main DB to various DBs: With 5nos 6sq.mm (R,Y,B, Neutral and Earth) from ESDB to TPN light DB	RM	150		

8	<p>Cabling:Supply and laying of following sizes of PVC/XLPE insulated and PVC sheathed 1.1 kV grade aluminum conductor LT armoured UG cable laid in ground/partially in air including excavation of cable trench upto depth of 75 cm. Refilling, protective brick covering, sand cushioning etc. complete handling of surplus soil, debris etc. to proper place as well as fixing to the walls with saddles, cable glands for connecting to the panels and appropriate end termination with copper lugs and providing of 2 nos. of 8 SWG GI wires as specified and directed by the department</p> <p>3.5 core X 120 sq. mm (from main line SFU to Panel incoming)</p>	RM	35		
9	<p>Cabling:Supply and laying of following sizes of PVC/XLPE insulated and PVC sheathed 1.1 kV grade aluminum conductor LT armoured UG cable laid in ground/partially in air including excavation of cable trench upto depth of 75 cm. Refilling, protective brick covering, sand cushioning etc. complete handling of surplus soil, debris etc. to proper place as well as fixing to the walls with saddles, cable glands for connecting to the panels and appropriate end termination with copper lugs and providing of 2 nos. of 8 SWG GI wires as specified and directed by the department</p> <p>3.5 core X 35 sq. mm (from main Panel to Change over switch and COS to ESDB and main panel to Capacitor panel)</p>	RM	0		
10	<p>Cabling:Supply and laying of following sizes of PVC/XLPE insulated and PVC sheathed 1.1 kV grade aluminum conductor LT armoured UG cable laid in ground/partially in air including excavation of cable trench upto depth of 75 cm. Refilling, protective brick covering, sand cushioning etc. complete handling of surplus soil, debris etc. to proper place as well as fixing to the walls with saddles, cable glands for connecting to the panels and appropriate end termination with copper lugs and providing of 2 nos. of 8 SWG GI wires as specified and directed by the department</p> <p>3.5 core X 70 sq. mm (from main Panel to AC DB)</p>	RM	75		
11	<p>Cabling:Supply and laying of following sizes of PVC/XLPE insulated and PVC sheathed 1.1 kV grade aluminum conductor LT armoured UG cable laid in ground/partially in air including excavation of cable trench upto depth of 75 cm. Refilling, protective brick covering, sand cushioning etc. complete handling of surplus soil, debris etc. to proper place as well as fixing to the walls with saddles, cable glands for connecting to the panels and appropriate end termination with copper lugs and providing of 2 nos. of 8 SWG GI wires as specified and directed by the department</p> <p>3.5 Core X 25 sq. mm (from AC DB to ductable AC incomer control MCB)</p>	RM	120		
12	<p>Cabling:Supply and laying of following sizes of PVC/XLPE insulated and PVC sheathed 1.1 kV grade Copper conductor LT armoured UG cable laid in ground/partially in air including excavation of cable trench upto depth of 75 cm. Refilling, protective brick covering, sand cushioning etc. complete handling of surplus soil, debris etc. to proper place as well as fixing to the walls with saddles, cable glands for connecting to the panels and appropriate end termination with copper lugs and providing of 2 nos. of 8 SWG GI wires as specified and directed by the department</p> <p>3.5 Core X 16 sq. mm (from AC control MCBs to Out Door Units)</p>	RM	105		

13	General Wiring for light/fan/exhaust fan points using 3 X 1.5 1.1 kV grade PVC insulated stranded copper conductor wire for phase, neutral and earth in 25 mm dia heavy duty PVC conduit along with associated accessories like MS 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 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, 6 Amp modular plate type switches etc., as required complete including circuit wiring with 3 X 2.5 sqmm. 1.1 kV grade PVC insulated stranded copper conductor wire and mending good to damage and as per site requirement and as instructed by engineer. All the opening shall be covered with blank plate and be sealed to make the box vermin proof. 2 no. of lights controlled by one switch	Set	30.00		
14	General Wiring for light/fan/exhaust fan points using 3 X 1.5 1.1 kV grade PVC insulated stranded copper conductor wire for phase, neutral and earth in 25 mm dia heavy duty PVC conduit along with associated accessories like MS 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 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, 6 Amp modular plate type switches etc., as required complete including circuit wiring with 3 X 2.5 sqmm. 1.1 kV grade PVC insulated stranded copper conductor wire and mending good to damage and as per site requirement and as instructed by engineer. All the opening shall be covered with blank plate and be sealed to make the box vermin proof. 1 no. of lights by one switch.	Set	30.00		
15	6 A light plug controlled by 6 A switch on the same switch board	Set	5.00		
16	Providing standard GI pipe earth station, with 100 mm dia 2500 mm long G I Pipe including excavation, construction of brick masonry chamber providing meshed funnel, electrode, watering pipe, charcoal and salt fill, CI cover completely as per IS 3043-1987 or latest revision. The rates to be inclusive of supply and laying of 8 SWG GI wire in 20 mm dia pvc conduit from earth pit to DB	Set	1		
17	Supply, installation, testing and commissioning of Recess mounted luminaire of 2' X 2' flat type modular 36W LED light fixture complete with electronic driver, wiring, heat sink, opal acrylic diffuser etc. suitable for gyp board or metric false ceiling. The fixture shall be provided with atleast three nos. 20mm dia knock out holes on the top side for fixing down rods and wiring purpose.	Nos.	60		
18	Supply, installation, testing and commissioning of Recessed decorative LED down lighter of 15W complete with electronic driver, wiring, heat sink, opal acrylic diffuser etc. suitable for gyp board or metric false ceiling.	No.s	80		
19	Removing and re installation, testing and commissioning by increasing the connecting rod length for the existing ceiling fans	No.s	12		
20	Removing and re installatin of existing Wall bracket air circulators type fans at new positions	No.s	16		

NOTE: Estimated costs are exclusive of GST.