

BOQ FOR ELECTRICAL WORK FOR CANARA BANK AT KRISHNAPURAM BRANCH & ATM (NEAR IIT TIRUPATI)					
SNO	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	2x2 36W LED recessed mounting light fitting (Havells/Wipro/Crompton/philips or Equivalent) including cost and conveyance of all materials, taxes and all labor charges etc., complete. with all inter connections and fixing arrangement (should be hanged with the help of chains/GI from the ceiling) as required. The price should be include fixing arrangement in Gypsum/ Grid ceiling etc.	20.00	Nos		
2	15 W LED recessed mounting downlight fitting (Havells/Wipro/Crompton/philips or Equivalent) including cost and conveyance of all materials, taxes and all labor charges etc., complete	20.00	Nos		
3	Supply and fixing of 4' Led Tube Lights	22.00	No		
4	Supply and Fixing of (10W) LED Downlight with Sensor (Auto ON Auto OFF), Surface Mounted LED Downlight for ceiling (Halonix - 10W RADAR DOWNLIGHTER PK1 or Equivalent)	0.00	No		
5	Supply & Fixing of 400 mm sweep Wall mounted fan (plastic blade) with 3 pin Plug on the lead wire of each fan all accessories Electrical connections. Including fixing materials required. ( Havells Swing model or Crompton Hi Flo Make or equivalent)	7.00	No		
6	Supply and fixing Ceiling Fans (48") High speed Crompton or equivalent make with suitable all fixing materials etc. Supply & Fixing	6.00	No		
7	Same as item no 6.above with 24" High speed fan	0.00	No		
8	Heavy Duty Exhaust Fans 9"	3.00	No		
9	Supply and wiring of Light and fan Points with Switch.Socket for WM Fan, MS Box, Plate and also Suitable Size 2mm thick PVC conduit with 3x1.5Sqmm Copper multistrand flexible pvc insulated cable (FRLS) with required all Materials etc. (Rate including the circuit wiring from Lighting Distribution Board to Switch Board Wiring 2x2.5+1.5Sqmm Wire and PVC Conduites)				
a	One light point controlled by One 6A Modular Switch	36.00	Pts		
b	Two light points controlled by One 6A Modular Switch. (Cost shall include wiring of the first point from the switch board and then looping from the first point to the second point)	13.00	Pts		
c	Three light points controlled by one 6 amp. Modular switch. (Cost shall include wiring of the first point from the switch board, then looping from the first point to the second point & further looping from the second point to the third point)	0.00	Pts		
d	Ceiling Fan Point including the cost of 6A Switch along with 5 step electronic fan regulator complete in all respects.	6.00	Pts		
e	Wall Fan Point along with 6 AMP switch and near by Socket	7.00	Pts		
f	Exhaust Fan Point along with 6 AMP switch	4.00	Pts		
10	Supply and wiring of Bell point with bell Push and Ding Dong Bell with Suitable Size 2mm thick PVC conduit with 3x1.5Sqmm earth wire Copper multistand flexible pvc insulated wires and 5A Switch cum sockets with Surface/Conceiled Box with required all materials etc. Supply & Fixing	1.00	set		
11	<b>A/C Points:</b> Supply and wiring of Circuits for Acs with Suitable 2mm thick PVC Conduite and 2x4.0Sqmm + 2.5Sqmm earth wire Copper multistand flexible pvc insulated wires (FRLS) with Supply and fixing of Metal Clad socket and 25/32A SP MCB and all required all materials etc. Supply & Fixing.	5.00	set		
12	<b>SWITCH CUM SOCKETS</b> Supply and fixing of 1No. 6A Sockets with 6A Switch control for above Switch Control Boards with suitable Surface/MS Boxes etc. Including Connections	6.00	Nos		
13	Supply and fixing of 2No. of 16A Sockets with 1 No. of 16A Switch control for Raw/UPS Power with Suitable Surface/MS boxes etc. Supply& Fixing	6.00	Nos		
14	Supply and fixing of 3 No. of 6A Sockets with 2 No. of 16A Switch control for Raw/UPS Power with Suitable Surface/MS boxes etc.Supply & Fixing	3.00	Nos		
15	<b>UPS Wiring:</b> Supply and wiring of Circuits for UPS power from UPS DB to individual Tables with suitable 2mm thick PVC Conduite and 2x2.5 Sqmm + 2.5 Sqmm earth wire Copper multistand flexible pvc insulated wires with required all materials etc. Supply & Wiring	7.00	Pts		

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16	Secondary point	4.00	Pts		
17	Supply and wiring of Circuits for Raw power from RAW Power DB to individual tables with Suitable 2mm thick PVC Conduite and 2x2.5 Sqmm +1.5 Sqmm earth wire Copper multistand flexible pvc insulated wires with required all materials etc. Supply & Wiring	10.00	Pts		
18	Secondary point	5.00	Pts		
19	<b>EARTHING:</b> Supply, fixing, testing & commissioning of earthing Earthpit with copper plate 600x600x3mm thick, 25x6mm copper flat, 40mm GI pipe, 100KG charcoal 100KG salt, funnel, mesh, cover etc. Digging depth up to 7	3.00	Nos		
20	Supply and fixing of 8SWG bare Copper wire with suitable PVC conduit required all materials etc.	45.00	Mts		
21	Supply and wiring of telephone points including wiring with 4 pair copper cable and suitable conduit, required all materials ect. & GI boxes with Telephone socket (RJ-11) with mounting box & front plate complete in all respect.	6.00	Nos		
22	Supply and wiring of Circuits for inputs with Suitable Size 2mm thick PVC Conduite and 4x6.0Sqmm+4.0Sqmm earth wire Copper multistand flexible pvc insulated wires with required all materials etc. (LDB Input)	25.00	Mts		
23	Supply and wiring of Circuits for Inverter power from Main DB to switch boards with Suitable 2mm thick PVC Conduite and 1x1.5 Sqmm Copper multistand flexible pvc insulated wires with required all materials etc.	150.00	Mts		
24	Supply and wiring of Circuits for Input with Suitable size 2mm thick PVC Conduite and 4x6.0Sqmm +4.0Sqmm earth wire Copper multistand flexible pvc insulated wires with required all materials etc. (UPS input) Supply & Wiring	35.00	Mts		
25	Supplying, laying, testing & commissioning of 4 C X 25 sq.mm. at 1100 volts grade XLPE insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (AC DB + RAW POWER DB).	40.00	Mts		
26	Supplying, laying, testing & commissioning of 4 C X 50 sq.mm. at 1100 volts grade XLPE insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (MAINS).	40.00	Mts		
	<p><b>ELECTRICAL PANEL</b> Design, manufacture, providing, storing &amp; installing in position, effecting proper connection, testing and commissioning of panel made of 16 SWG, CRCA sheet steel. It shall be dust and vermin proof. It shall have compartmentalized construction with bus bar chambers, cable alley, cable glands plate etc. as required, duly painted from inside as well outside. It shall have the following: R, Y, B Phase indicating lamps. (Provide labeling in Panel) including DANGER sign and necessary precautions, Earth Bus Bar 25x5mm GI strip- 2 nos (At the bottom)</p> <p><b>MAIN PANEL:</b> 1 No.80 Amp. 4P MCCB adjustable (25 KA breaking capacity), Bus bars 150 Amp each., 3 phase, 4 strips, 415 volts, 50 Hz. copper busbars with colour coded PVC heat shrinkable sleeves. <b>There should be 2 sets of BUS BAR in such a way that AC load should not be connected to GENERATOR power.</b> 100 Amp. On load Generator Changeover Switch Instruments: Digital Multi function Meter of standard make for displaying Input Voltage, Ampere, Power factor, KWH used with CTs.</p>	1.00	No.		

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SNO	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>OUTGOING:</b> 3 Nos. 40 Amp. TPN MCB FOR LDB & RAW POWER DB, SPARE FEEDER 2 Nos. 63 Amp. TPN MCB (For AC DB, UPS INPUT and Spare Feeders provision) 5 Nos. 32/40 AMP DP MCB. 4 Nos (for Glow Sign board, Strong Room, Inverter & ATM) and spare feeder For LDB, RAW POWER DB, Branch UPS, Glow Sign board, Strong Room, Inverter, ATM and spare feeder from Generator Powered Bus. FOR AC DB from Non-Generator Powered Bus. The design of panel should be got approved by the Architect before manufacturing. Also, the provision for 1/2 spare outgoing should be considered for future expansion. The job shall be completed to the satisfaction of the Bank.				
27	<b>DISTRIBUTION BOARD(Double Door DBS)</b>				
	Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, earth bar, common neutral link, din bar for mounting of MCB's detachable gland / knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and up to the terminal connectors/ neutral link and ready for installation of following ways as required.				
	Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc.& 'D' curve for UPSDB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B, C & D. Contractor to select the MCB's accordingly as per the nature of the circuit/ load.				
	Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall be of 125 A.				
	UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link.				
	All internal inter connecting wiring with in the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating. Inside each DB, a DB chart is to be fixed.				
	MAIN DBS / SUB DBS- Supply Installation Testing and commissioning of TPN MCB Double door Distribution boards dust and vermin protected and rated for 415V, Three Phase AC supply operation including incoming MCB/ELCB as per specifications and required capacity Neutral bar and Earth terminal complete as required and installed in flush with wall including all fixing materials required. MCBs shall conform : 8828 and ELCB /RCCB shall confirm to IS : 12640				
A	6-way TPN DB (LIGHT DB): Incomer:- 1 No. 40 Amp TPN (10 KA) MCB with 3 No of 25 A DP RCCB (30 mA) each phase Outgoing:- 12 Nos.6/10 Amp (10 KA) SP MCB	1.00	No		
B	4-way TPN DB (R Power DB) Incomer :- 1 No. 40 Amp TPN (10 KA) MCB with 3 No of 25 A DP RCCB (30 mA) each phase Outgoing :- 6 Nos. 10/16/25/32 Amp (10 KA) SP MCB	1.00	No		
C	6-way TPN DB (AC DB) Incomer :- 1 No. 63 Amp TPN (10 KA) MCB with 1 No of 63 A 4P RCCB (100 mA) Outgoing :- 9 Nos. 10/16/25/32 Amp (10 KA) DP MCB	1.00	No		
D	8-way SPN DB with 1 Nos. 40 A (10 KA) DP MCB for incoming and 6 Nos. 10/16/25/32 Amp (10KA) SP MCB (For ATM DB )	1.00	No		
E	12-way SPN DB with 1 Nos. 40 A (10 KA) DP MCB for incoming and 10 Nos. 10/16/25/32 Amp (10KA) SP MCB (For UPS Output - SDB)	1.00	No		
F	8 WAY SPN Double Door DB complete with 1 No. 32 AMP DP MCB as incomer and 6 NOS. 6-10 AMP SPMCB as outgoing for UPS power distribution points for ESSENTIAL LOADS like CCTV System, Fire & Burglar Alarm Systems, Networking Rack, ATM and select Light points powered by UPS.	1.00	No		
28	Supply & fixing of 3 Phase 63A Manual Phase Changeover Switch without OFF for UPS input. (L&T Make)	1.00	No		
29	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 63 A 415 V "C" curve TPN MCB complete with connections, testing and commissioning etc. as required. UPS INPUT	1.00	No		

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SNO	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT
30	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 40A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required. UPS INPUT	2.00	No		
31	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 40A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required. UPS OUTPUT	2.00	No		
32	Supply & Installation of rubber mats (Class-A) of 1000 mm x 2000mm & thickness of 10mm: 3.3 KV Voltage grade	1.00	Nos		
34	Installation of RGB indicator set at the entrance of the branch showing the output of LDB, UPS SDB, AC and Raw Power DB with necessary wiring and equipment related	1.00	LS		
<b>LAN CABLING</b>					
35	Supply and Laying of 4Pair, UTP cat6E Lan Cable with Information outlet and Suitable 2mm Thick PVC Pipe Laying Below Flooring/Wall/Slab etc MS Junction Boxes to All Tables , Including all Related Civil Works etc All Cable Numbers to be Provided at both ends( systimax) Supply&fixing	16.00	Pts		
36	Supply of 7 feet Patch Cords. Supply&fixing	16.00	Nos		
37	Supply of 3 feet Patch Cords. Supply&fixing	16.00	Nos		
38	Supply of 24 patch panel Supply&fixing	1.00	Nos		
39	Supply & Fixing of 12U Rack	1.00	Nos		
<b>TOTAL AMOUNT FOR ELECTRICAL WORK</b>					
<b>GST EXTRA AS APPLICABLE</b>					