CANARA BANK CIRCLE OFFICE TIRUPATI BOQ FOR ELECTRICAL WORKS AT: BRANCH AT CANARA BANK MULAVANKA BRANCH EXISTING PREMISES BATE (Bo.) AMOUNT (Bo.)

	BOQ FOR ELECTRICAL WORKS AT: BRANCH AT CANARA BANK MULA	VANKA	DRANCH	EXISTING PRE	WIIDED
S. NO.	DESCRIPTION OF ITEM	QTY	UOM	RATE (Rs.) (Excl. GST)	AMOUNT (Rs.) (Excl. GST)
1	Making temporary connections and shifting of points all across the Branch and for workstations (Electrical, UPS and telephone) to enable smooth functioning of the branch during renovation all complete as per the instructions of Bank's Engineer/ Architect. Item to include supplying all wires, cables, conduits etc. for the same. Nothing extra shall be payable in this regard	1.00	Job		
2	SITC of 3 Nos. 200 Amp. Kit-kat Fuse unit along with 200 Amp. neutral link on wooden board of size 2'0" x 2'0" complete with connections complete in all respect to the satisfaction of Bank.		Set		
3	ELECTRICAL PANEL Design, manufacture, providing, storing & 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: MAIN PANEL: 1 No.100 Amp. TPN, MCCB (25 KA breaking capacity), Bus bars 100 Amp., 3 phase, 4 strips, 415 volts, 50 Hz. copper busbars with colour coded PVC heat shrinkable sleeves. There should be 2 sets of BUS BAR in such a way that AC load should not be connected to GENERATOR power. 100 Amp. Changeover Switch Instruments: Digital Multi function Meter of standard make for displaying Input Voltage, Ampere, Power factor, KWH used with CTs.	1.00	No.		
	OUTGOING: 2 Nos. 32 Amp. TP MCB (For LDB, PDB, Branch UPS, Inverter and Spare Feeder) from Generator Powered Bus. 2 Nos. 63 Amp. TP, MCB (For AC DB and Spare Feeders) from Non-Generator Powered Bus. 4 Nos. 32 AMP DP MCB. 3 Nos (for Glow Sign board, Strong Room, and spare feeder) from Generator Powered Bus. The design of panel should be got approved by the Architect before manufacturing. Also, the provision for 1/2 spare outgoings should be considered for future expansion. The job shall be completed to the satisfaction of the Bank.				
4	UPS I/P, O/P AND DISTRIBUTION & INVERTER INPUT & DISTRIBUTION				
a.	SITC of 32/40 Amp. TP MCB in encloser Double Door complete (Branch and Inverter Incomers) complete in all respects as required.	3.00	Nos.		
b.	SITC of 20/32 AMP Modular plug & socket along with MCB & plug top complete as per requirement and satisfaction of Bank. (2 for Branch's UPS Input, 2 for Branch's UPS Output & ATM)		Nos.		
c.	SITC of 12 WAY SPN Double Door DB complete with 1 No. 40 AMP DP MCB as incomer and 12 NOS. 6-10 AMP SPMCB as outgoing for Branch UPS power distribution to Computer points on Staff Counters / Tables.		No.		
d.	SITC of 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. Three way LED indicator lamps to be included with DB for power load, AC load adn UPS load to be located in front of CCTV camera.	1.00	No.		
f.	SITC of 40/63 Amp. Rotary Phase selector switch complete with RYB indication in enclosure for Branch's UPS input power network and Inverter. Complete in all respect as required.		No		
5	RAW POWER & FAN, LIGHTING DB & AC DISTRIBUTION BOARD				
a.	SITC of 4 WAY HTPN DB IP43,lko9, complete with 1 No. 63 AMP TP MCB as incomer and 12 NOS. 6-32 AMP. SPMCB for out going as LDB, complete in all respect as required.	1.00	Nos.		
b.	SITC of 6 WAY HTPN DB IP43,lko9, complete with 1 No. 63 AMP TP MCB as incomer and 18 NOS.18/20 AMP. SPMCB for out going as PDB & AC DB complete in all respect as required.	1.00	Nos.		
C.	SITC OF 4-way V-TPN DB (AC DB/ Power DB)	0.00	Nos.		
	Incomer: 1 No. 63 Amp TPN (10 KA) MCCB Outgoing: 2 Nos. 32 Amp (10 KA) TP MCB				
	: 6 Nos. 16/25 Amp (10 KA) SP MCB				
6	CABLES				

	All cables / wires shall be routed through PVC conduits / bends / elbows				
	etc., as required, of appropriate dia. The conduits shall be clamped firmly				
	to the walls / columns / pillars etc. with clips / clamps and fasteners				
	rigidly even if above false ceiling.				
	Complete job shall include cutting chiseling in walls, floor and making				
	good of all chases / cuts etc. with combination of cement-mortar,				
	including painiting with type and shade of existing wall. The work shall be completed to the satisfaction of Bank.				
	NO CABLE / WIRE / CONDUIT SHALL BE VISIBLE IN THE BRANCH HALL				
	/ CUSTOMER LOBBY / STAFF WORKING AREA.				
	SITC of 3.5 Core 50.0 Sq.mm Aluminium conductor Armoured Cable for				
a.	service line connection up to Kit kat fuse unit complete in all respect as		Mtr.		
<u> </u>	required.	20.00	IVIU.		
	SITC of 3.5 Core 35.0 Sq.mm Aluminium conductor Armoured Cable for				
b.	service line connection up to Kit kat fuse unit complete in all respect as	0.00	Mtr.		
	required.				
	SITC of 4 core 6.0 Sq.mm Copper conductor Unarmoured Cable from main				
	Panel to				
	(a) LDB				
c.	(b) PDB	30.00	Mtr.		
	(c) Branch UPS input power supply. Note: In case inverter is present at the branch, the wiring from LDB				
	should be with 2x6.0+1x2.5 sqmm wiring mentioned below and not with 4				
	core 6.0 Sq.mm Cable				
	SITC of 2 runs of 6.0 Sq.mm and 1 no. of 2.5 Sqmm FRLS PVC Insulated				
d.	Multistrand Copper conductor wire from selector switch to UPS to UPS		Mtr.		
-	Distribution boards	==			
	SITC of 4 core 10.0 Sq.mm Copper conductor Unarmoured Cable from main				
e.	Panel / Non Generator power Bus to	32.00	Mtr.		
С.	(a) AC DB	32.00	iviti.		
	(b) Inverter				
	SITC of Sub main Wiring for Strong room, Single Phase AC and Glow Sign				
f	Board with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper		Mtr.		
	conductor FR pvc/ xlpe insulated Wire in required dia pvc conduit complete in				
	all respects as required.				
	SITC of 2 runs of 10.0 Sq.mm and 1 no. of 2.5 Sqmm FRLS PVC Insulated	40.00	Mtr.		
g	Multistrand Copper conductor wire from selector switch to inverter	40.00	iviti.		
	SITC of 2C x 2.5 Sqmm copper earth wire from 6 way DB to network rack,	00.00			
h	CCTV Fire alarm etc	38.00	Mtr.		
i	SITC of 2C x 1 Sq mm copper wire from main panel to 3 way LED indicator	18.00	Mtr.		
7	AC (Split and Cassette) POINT SITC of AC Point Wiring with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm				
	Multistrand Copper Wire & Modular plug & Socket with 10/16/25 Amp.				
a.	SPMCB complete in all respect as required by the Bank (for 1.0 / 1.5 Tr Hi-	9.00	Nos.		
a.	Wall Split ACs) The wiring shall be done form DB to indoor or outdoor as per		1103.		
	requirement at site				
	SITC of AC Point Wiring with 2 No. 6.0 Sq.mm and 1 No. 2.5 Sq.mm				
١.	Multistrand Copper Wire & Modular plug & Socket with 20 Amp. SPMCB		NI .		
b.	complete in all respect as required by the Bank (for 2.0 Tr Hi-Wall Split /		Nos.		
	Cassette ACs)				<u> </u>
	S & I of 40/63A (TPN/DP), MCB in sheet metal water proof IP-55 enclosure				
C.		0.00	No.		
<u> </u>	for giving supply to HVAC machines/equipt.				1
8	EARTHING			<u> </u>	
	Preparation and commissioning of earth pits with PIP technology GEL type				
a.	50mmdia 3000mm long earth electrod. (One Dedicated Earthing for ATM		Nos.		
	UPS, Branch UPS and main panel				
	DITO A FEMILIA AND A MARKET AND				
L-	SITC of Earthing conductor from earth terminal to load point with 6.0 sq mm		N.4+		
b.	multstrand copper conductor FR pvc /XLPE insulated cable in required dia pvc conduit complete in all respect as required.	48.00	Mtr.		
9	UPS POINT	18.00	Nos.		
			1100.		
	Supply & Installation of point wiring for UPS or stabilized power plug points on				
	workstations / table for computers using 3 X1.5 Sq.mm copper conductor multi				
	starnd FR PVC sheathed flexible wire including PVC conduite laid floor				
	raceways/conduit and taken upto table top using PVC rigid or flexible conduits				
	run within wooden/metal partitions. Each point consisting of 1 No. Phase Indication light,1 No.16A Switch ,1No, 16Amp and 2Nos 6A , 5/6 pin sockets				
	& wired together forming one point. The earth wire of green color only.				
1	a mile to great color forming one point. The earth wife of green color only.	l			I

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10	RAW POWER POINT Same as social no 1, but providing power point by using 2*4.00 sq.mm. BVC			
	Same as serial no.1, but providing power point by using 2*4.00 sq.mm. PVC			
	insulated 1100 V grade copper conductor wire with independent 1*4.0 sq.mm earth wire from D.B. to first point (Primary Point) and first to second point with			
	2*2.5 sq.mm. PVC insulated 1100 V grade copper conductor wire and 1*2.5			
	earth wire (Secondary Point). All wiring is to be provided in PVC conduit of			
	suitable size. Each power point (Primary or Secondary) must include providing			
	and fixing of a dual socket combination of 1 no. 16 Amp 6 –pin socket with			
	16 Amp. switch & 1 no. 6 Amp 5-pin socket with 6 Amp. switch. The			
	switches should be Modular type switch / socket / plate etc. complete			
	assembly).			
	There shall be a maximum of 2 points per circuit			
	NOTE: The power point, complete as mentioned above, shall be placed on the			
	low ht. / full ht. partition above the tables / counters at a suitable place to			
	ensure convenient accessability for staff.			
	Primary Point	10.00	Nos.	
11	LIGHT/FAN POINT			
	Supply & Installation of concealed point wiring using 600v grade 1.5 Sq.mm			
	copper conductor PVC insulated wires (with proper R,Y,B color code) pulled			
	through heavy gauge PVC conduits laid concealed over false ceiling including			
	2 Nos. 2.5 sqmm circuit wires from the relevant DB and also including 2.5			
	sqmm green color copper earth wire and switch plate, switches, etc. as			
	approved by the Bank's Engineer/Architect.			
a.	One light points controlled by one 6 amp. Modular switch.	8.00	Nos.	1
	Two light points controlled by one 6 amp. Modular switch.			
b.	(Cost shall include wiring of the first point from the switch board and then	14.00	Nos.	
	looping from the first point to the second point)			
	Three light points controlled by one 6 amp. Modular switch.			
	(Cost shall include wiring of the first point from the switch board, then looping	8.00	Nos.	
	from the first point to the second point & further looping from the second point	0.00		
	to the third point)			
	Four 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	1.00	Nos.	
	to the third point & further looping from thrid point to fourth point)	1.00	1105.	
	to the time point a farther looping from time point to fourth point,			
	Ceiling Fan Point including the cost of 6A Switch along with 5 step electronic	5.00	Non	
C.	fan regulator.	5.00	Nos.	
d.	Wall Fan Point along with 6 AMP switch	14.00	Nos.	
e.	Exhaust Fan Point along with 6 AMP switch	3.00	Nos.	
f.	Call Bell Point	1.00	Nos.	
12	DATA CABLING & POINT			
	Wiring for computer networking from I/O hub to computer workstation with Cat-			
	6 computer cable including providing ferrules at both ends and termination at			
a.	both ends including providing & fixing frame for Cat-6 with shutter, RJ 45	18.00	Nos.	
	outlet, faceplate and mounting box complete of modular type. This work			
	includes providing PVC conduits in chases from the I/O hub to the point.			
b.	Supplying and fixing of 1 mtr long crimped patch cord	18.00	Nos.	
c.	Supplying and fixing of 2 mtr long crimped patch cord	18.00	Nos.	
d.	Supplying and fixing of 16U Rack complete with exhaust fan, lockable front	1.00	Nos.	
	glass door, cable managers, electrical socket board etc.			ļ
e.	Supplying and fixing of 24 port jack panel	1.00	Nos.	-
13	VOICE NETWORKING			1
	Wiring for Telephone / Intercom System from Tag Block to workstations / Tables / counters / outlets with 2 pair Telephone cable including providing			
	ferrules at both ends and termination at both ends including providing & fixing			
1.1	frame for RJ11 socket with shutter, RJ11 outlet, faceplate and mounting box	11.00	Nos.	
	complete of modular type. This work includes providing PVC conduits in			
	chases from the tag block to the individual point.			
	Supplying, laying, effecting terminations, testing and commissioning of			
	0.51mm dia Cu. Conductor, twisted , colour coded with polythene capor			
1.2	barrier, telephone cables in the existing tray or in conduit including providing			
	&fixing conduit pipe or cable tray as required from building tag block to the			
	floor as required.	44.5-	NI.	
a)	Supplying & fixing 20 pair krone tag block with enclosure.	11.00	Nos.	-
b)	P/L 20 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone Cable	45.00	Mtrs.	
	telephone dable			L

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14	FIXTURES			
	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge.(all Commercial LED Light Fixures should be covered with minimum 3 Years onsite replacement warranty)			
a.	FULL GLOW 2X2 LED 36W Ultra slim Smart Panel complete with driver of make As specified in tender document or approved by bank	36.00	Nos.	
b.	LED 18/20 watt Tube Light with all accessories.make As specified in tender document or approved by ARCHITECT OR BANK	14.00	Nos.	
c.	Supplying , fixing ,testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by ARCHITECT OR BANK	24.00	Nos.	
	LED Strip having lighting 15W per 5 M with driver and necessary installation fittings Led strip light (5mtr.) make As specified in tender document or approved by ARCHITECT OR BANK		R.Mt.	
	ENDURA LIGHT SQ SWIVEL - 3 W LED commercial type Spot lighter of make As specified in tender document or approved by ARCHITECT OR BANK	0.00	Nos.	
	LED Profile Light with aluminium cover & PVC cover length for cove lighting 15W per 5 M with driver and necessary installation fittings Led strip light (5mtr.) make As specified in tender document or approved by ARCHITECT OR BANK	0.00	R.Mt.	
	LED Focus Light - 10 W LED commercial type Focus lighter of make As specified in tender document or approved by ARCHITECT OR BANK	0.00	Nos.	
d.	Wall mounted fans 450 mm dia. make as specified in tender document or approved by ARCHITECT OR BANK	14.00	Nos.	
e.	Supply &fixing of Ceiling fans 1200 mm double ball bearing make As specified in tender document or approved by ARCHITECT OR BANK with required down rod and hanging arrangement	5.00	Nos.	
f.	Supply & fixing of 230 mm exhaust fan 'Ventilair DX W' with self closing louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by ARCHITECT OR BANK	3.00	Nos.	
	GRAND TOTAL (Rs.)			