

BOQ FOR ELECTRICAL WORKS FOR Canara BANK- Tinsukia Branch					
Sl. No	Description	Unit	Qty	Rate	Amount
<b>PART A: ELECTRICAL WORKS</b>					
<b>SECTION-A</b>					
1	<b>MAIN SWITCH</b>				
1.1.	S.I.T.C of following MCCB Unt with MCCB in sheet steel enclosure on M.S. angle frame / M.S. legs on wall complete with interconnection, mending good damages to original finish, painting, etc. as required.				
	<b>63A 4P 25 KA MCCB</b>	No.	1		
2	S.I.T.C. of Factory Manufactured Single/ 3 Phase & Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure with cutouts for operating MCB/MCCB/RCCB etc. knobs & consisting of Phase, Neutral & Earth Busbars with tapped holes , phase barriers, & covers with removable plates on Top & bottom for Incoming & Outgoing Cables . D.B.'s shall be flush mounting type for both single & three phase.				
2.1.	<b>S.I.T.C. of TPN 4way Double Door Vertical Distribution Board with following M.C.B./M.C.C.B./RCCB &amp; cable end boxes at Input &amp; Output. [Main VTPN]</b>				
a	4 Pole ,Type C, 163 Amp 30KA MCCB as Incomer - 1 no.s 63A DP "C" Class MCB . for input to LDB - 1 Nos 40A DP "C" Class MCB for input to Raw PDB- 1 Nos. (Water Dispenser, Mobile Charger & Ancillary services Load) 40A TPN "C" Class MCB for input to ACDB- 1 Nos. 32 DP "C" Class MCCB for Inverter INPUT AND OUTPUT- 2 Nos,  <b><u>Note- Rates Shall be inclusive of S.I.T.C. 3X35 sqmm Armoured aluminium cable from the Main LT panel to the main DB including 4 X10 Sq.mm. F.R.L.S. Copper Flexible wires with 2 X 10 Sqmm Copper Earth Wires in Rigid MS conduit from 100 A MCCB in Metal Box (Metering Cabinet) at the output of Br. Meter to Main DB and any other ancillary items as directed by Engineer-in-Charge/ Architect.</u></b>  <b><u>Note- FOR AC POINTS Rates Shall be inclusive of S.I.T.C. of 4 x 6.0mm<sup>2</sup> + 2x4.0 mm<sup>2</sup> F.R.L.S. copper flexible wires in 19/20 mm. MS conduit from Main Panel To AC points</u></b>	No.	1		
<b>Section B</b>					
3	<b>MCB DISTRIBUTION BOARD</b>				
	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 outgoing circuits, duly prewired with adequate size of FR MS insulated copper conductor upto the terminal connector/neutral link and ready for installation as specified below:				
3.1.	<b>S.I.T.C. Of L.D.B. [MCB DB- LIGHT] (LIGHT DB)</b>				
a.1.	S & I of 12 Way SPN, DB for distribution to all Light points of different areas (as indicated in the circuit diagram), having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) - 25A, 30 mA, DP MCCB as incomer - 1 Nos, 6A/16/25 SP MCB as outgoing -10 Nos.  <b><u>Note- Rates Shall be inclusive of S.I.T.C. of 3X 2.5 Sq.mm. F.R.L.S. copper flexible wires in 19/20 mm. MS conduit from Main D.B To L.D.B</u></b>	No.	1		
b	<b>S.I.T.C. Of P.D.B. [MCBDB-POWER] (Raw Power DB)</b>				
b.1.	S.I.T.C. of SPN 12 way Single door D.B. with Incomer 40Amp 30mA, DP MCCB - 1 No . 10/25A SP MCB-10 Nos. with all wiring connections.( Max. 2 Points to be looped on one MCB, 3 nos. in exceptional case.)  <b><u>Note- Rates Shall be inclusive of S.I.T.C. of 3 X 4 Sq.mm. F.R.L.S. Copper Flexible wires in Rigid MS conduit from Main DB to Power DB</u></b>	No.	1		
c	<b>S.I.T.C OF U.P.S. D.B. : (MCBDB-UPS )</b>				
	S.I.T.C. of 10 way Single Door SPN D.B. with Incomer Double pole 30 mA 40 Amp MCCB - 1 No 10/16A SP MCB- 8 Nos. with all wiring connections.( Max. 2 work-Station Points to be looped on one MCB, 3 nos. in exceptional case.)  <b><u>Note- Rates Shall be inclusive of S.I.T.C. of 3 X 4 Sq.mm. F.R.L.S. Copper Flexible wires in Rigid MS conduit from Main DB to MCBDB-UPS-1. (body to be earthed)</u></b>	No.	1		
d	S.I.T.C of 32 Amp. D.P. MCB in Metallic box for Inverter I./P. & O/P to LDB	No	1		
e	S.I.T.C of 32A DP MCB in Metallic box for UPS I./P.& O./P.	No	2		
f	<b><u>S.I.T.C. Of ACDB [MCB DB- AC]</u></b>				

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	S.I.T.C. of 4 way Single door TPN Distribution Board with all wiring connections. Incomer : -25A TPN 30mA RCCB : - 1 No. Outgoing : - 16A SP MCB : -6 Nos.	No.	1		
	<b>Note- Rates Shall be inclusive of S.I.T.C. of 4 x 6.0mm<sup>2</sup> + 2x4.0 mm<sup>2</sup> F.R.L.S. copper flexible wires in 19/20 mm. Medium Guage MS conduit from Main Panel To ACDB</b>				
	<b>SECTION-C</b>				
4	<b>POINT WIRING</b>				
4.1	Supply & Installation of concealed point wiring using 3 x 1.5 sqmm stranded FRLS copper conductor in <u>M.S Conduit</u> including the cost of circuit wiring from the relevant DB's with 3x 1.5 sq mm stranded FRLS copper conductor in <u>M.S Conduit</u> . PIN GRIP Lugs should be used for connection/ terminations at both the ends with proper colour coding of phase, neutral and earth wire ( Phase R,Y,B Neutral-Black & Earth - Green Colour). The rate shall also include concealed M.S Box, Cover Plate and Switches of grid plate type switches and sockets of approved shade and make as approved by Bank / Architect. Each circuit should not have more than 8 points / 800 W in one loop as per the following configuration.				
a (i)	Primary light points including the cost of 6A switch (Single Point-31 Nos. Double Loop Points- 21 Nos.Triple Loop Point-5 Nos.,)	Pts	58		
(ii)	Primary light points including the cost of 6A switch in UPS Power	Pts	8		

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b	Secondary 6A Plug point on switch board. [SO]	Pts	6		
c	16/6 A Plug Point directly taken from PDB for hotplate/geyser / zerox / fridger etc.	Pts	4		
d	Exhaust fan/ Wall Fan point consisting of 6A socket near fan and switch on light switch board	Pts	18		
e	Ceiling Fan Point with modulat type regulator	Pts	3		
f	Wiring for Signages with 2R x2.5 Sq.mm and 1 Rx 1.5 Sq.mm, PVC insulated copper conductor flexible cable to be connected to the SPN D/D consumer along with a Timer and Contactor unit installed in Electrical Room room	Set	1		
g	S.I.T.C. of call bell with bell point .	Nos.	2		
4.2	<b>COMPUTER/ RAW POWER WIRING</b>				
	Note- All sockets should be placed below the workstations as mentioned in the drawings but the controlling switch should fixed above the work stations and at place as directed by the architect				
a	Supply & Installation of concealed UPS or stabilized power plug points on workstations / table for computers using 3 x 2.5 sqmm stranded FRLS copper conductor in <b>M.S Conduit</b> including the cost of circuit wiring from the relevant DB's with 3 x 4.0 sq mm stranded FRLS copper conductor in <b>M.S Conduit</b> . PIN GRIP Lugs should be used for connection/ terminations at both the ends with proper colour coding of phase, neutral and earth wire ( Phase R,Y,B Neutral-Black & Earth - Green Colour). Each point shall consist of 3 Nos of 6A/16A 2 / 3 Pin sockets and 1 No 16A switch, wired together forming one point. Switches and sockets to be of approved shade and make. ( Only 2 tables served by one circuit from UPS DB/ Not more than 2 points shall be permitted per loop) Cost is inclusive of necessary cutting the walls/ partitions and carrying all the wires through <b>M.S Conduit</b> and againg finishing the walls with Putty/ Cement/ POP to receive the final paint.. [SOC]	Pts	16		
b	S & I of points similar to above but to be used as raw power point on the tables consisting of one 6/16A socket with switch of other color and flexible cable of black color & circuit taken from <b>Raw Power DB</b> ( 2 tables ( Maximum 3) served by one circuit from LDB/PDB) Taken Above False ceiling and through walls/ partitions inside <b>M.S. Conduits</b> as raceways are not provided. Cost is inclusive of necessary cutting the walls and including <b>M.S. Conduits</b> as required for taking the wires.	Pts	20		
<b>SECTION-D</b>					
5	<b>MODIFICATIONS OF EXISTING EARTHING</b>				
5.1	Testing, Checking and improving existing Earthing of the branch.The work shall include repairing of existing eath pit so as to obtain the desired earthing output as per bank's standards and Re-Wiring and Re-connecting with minor rectifications as may be required for Earthing as per the existing site conditionsThe rate shall be inclusive of necessary 8 SWG dia copper wire on surface or in recess for loop earthing as required. <b><u>EARTHING TEST CERTIFICATE SHOULD BE SUBMITTED ALONGWITH THE FINAL BILL FOR FURTHER PROCESSING OF THE BILL</u></b>	Each	1		
<b>SECTION-E</b>					
6	<b>LIGHTING FIXTURES (Bajaj or equivalent)</b>				
6.1	S & I of lighting fixtures as per the details given below including necessary hardware such as clamps,nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as directed by architect / Consultant.				
a	<b>PANEL LIGHT [PL]</b> - Ultra Slim LED Panel made from extruded aluminium housing frame (recess / pendant) 2ft x 2ft , Wattage-30W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect.	No	18		
b	<b>DOWN LIGHT [DL]</b> - Round LED recess-mounted designer panel with aluminium die cast housing , Wattage-18W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect.	No	22		
c	S.I.T.C. of12/13 Watt 6000/6500 K,( ≥720 lumens) Recessed/Surface mounted LED Down Lighting Fixtures with fixing accessories. As Emergency Light	No	8		
d	<b>1200 MM TUBE LIGHT [TL]</b> - LED batten tubes, Glaze LED Batten, High quality aluminium extruded with decorative end caps, Wattage-20W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect.	Each	18		
6.3.	Supplying including fitting fixing of following star rated new 400- 450 mm dia bracket/wall fan in pvc body and pvc blade of Havells/ Orient/ Chrompton or equivalent of approved make , complete with all accessories with necessary connection cable, as approved by the Deptt.s etc. as required complete and as directed by the Bank				
	a) 400- 450 mm sweep	EACH	14		
6.4	Supply and fixing of 10" - 12" Metal bladed exhaust fans with louvers.[EF]	EACH	4		
6.5	1200mm dia Ceiling Fan	EACH	3		
7	<b>WIRING FOR DATA AND VOICE OUTLETS</b>				

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7.1	Supplying, laying and termination of 4 pair Copper solid, twisted pair G600 CAT--6 cables through specified dia MS conduits / raceways. Cables must meet and exceed category 6/ class E standards requirements in ISO/IEC11801, CENELEC EN50173 & TIA 568-B2-1. and providing & terminating with RJ-45 (Krone make) with face plates / I/O Ports in suitable modular / MS box from server / EPABX room to individual work stations and terminating other end with RJ-45 connector including numbering with ferule. Note- Rates shall be all inclusive as mentioned in the description above and the payment for the same item shall be made on the number of points provided based on the above description. Rates shall be inclusive of 5'-0" long patch chord with crimping on both ends				
a	RJ-45 for data points ( THROUGH False ceiling and wall)	points	19		
7.2	Shifting in position of existing Data/ Server rack to new locations as per the new approved drawing and as directed by the architect	LS	1		

