

BOQ FOR ELECTRICAL WORKS FOR CANARA BANK Agartala-II BRANCH, GUWAHATI, ASSAM
PART A: ELECTRICAL WORKS

Sl. No	Description	Unit	Qty	Rate	Amount
SECTION-A					
1	MAIN SWITCH				
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.				
	100A 4P 25 KA MCCB	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.	S.I.T.C. of TPN 4way Double Door Vertical Distribution Board with following M.C.B./M.C.C.B./RCCB & cable end boxes at Input & Output. [Main VTPN]				
a	4 Pole, Type C, 100 Amp 25 KA MCCB as Incomer - 1 no.s 25A 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) 25A TPN "C" Class MCB for input to ACDB- 1 Nos. 16A SP "C" Class MCCB for Inverter INPUT AND OUTPUT- 2 Nos, 16A SP "C" Class MCCB -2 Nos. Note- Rates Shall be inclusive of S.I.T.C. 3X50 sqmm Armoured alluminium 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. Note- FOR AC POINTS Rates Shall be inclusive of S.I.T.C. of 4 x 6.0mm² + 2x4.0 mm² F.R.L.S. copper flexible wires in 19/20 mm. MS conduit from Main Panel To AC points	No.	1		
Section B					
3	MCB DISTRIBUTION BOARD				
	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.	S.I.T.C. Of L.D.B. [MCB DB- LIGHT] (LIGHT DB)				
a.1.	S & I of 6 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) - 1 No. 40A, 100 mA, SP MCCB as incomer , 10 Nos 6A SP MCB as outgoing 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	No.	1		
b	S.I.T.C. Of P.D.B. [MCBDB-POWER] (Raw Power DB)				
b.1.	S.I.T.C. of SP 10 way Single door D.B. with Incomer Double pole 30 mA 40 Amp RCCB - 1 No . 16 Amp SP M.C.B. - 1 No and 10A SP MCB- 7 Nos. with all wiring connections.(Max. 2 Points to be looped on one MCB, 3 nos. in exceptional case.) 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	No.	1		
c	S.I.T.C OF U.P.S. D.B. : (MCBDB-UPS)				
	S.I.T.C. of 6 way Single Door SP D.B. with Incomer Double pole 30 mA 40 Amp RCCB - 1 No 10A SP MCB- 6 Nos. with all wiring connections.(Max. 2 work-Station Points to be looped on one MCB, 3 nos. in exceptional case.) 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)	No.	1		
d	S.I.T.C. Of ACDB [MCB DB- AC]				
	S.I.T.C. of 10 way Single door SP Distribution Board with all wiring connections. Incomer : -25A 4P 30mA RCCB : - 1 No. Outgoing : - 16A SP MCB : - 6 Nos. Note- Rates Shall be inclusive of S.I.T.C. of 4 x 6.0mm² + 2x4.0 mm² F.R.L.S. copper flexible wires in 19/20 mm. Medium Guage MS conduit from Main Panel To ACDB	No.	1		

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SECTION-C					
4	POINT WIRING				
4.1	Supply & Installation of concealed point wiring using 3 x 1.5 sqmm stranded FRLS copper conductor in M.S Conduit including the cost of circuit wiring from the relevant DB's with 3x 1.5 sq mm stranded FRLS copper conductor in M.S Conduit . 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	Pts	46		
(ii)	Primary light points including the cost of 6A switch in UPS Power	Pts	10		
b	Secondary 6A Plug point on switch board. [SO]	Pts	13		
c	16/6 A Plug Point directly taken from PDB for hotplate/geyser / zerox / fridger etc.	Pts	7		
d	Exhaust fan/ Wall Fan point consisting of 6A socket near fan and switch on light switch board	Pts	10		
e	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	2		
f	S.I.T.C. of call bell with bell point .	Nos.	2		
4.2	COMPUTER/ RAW POWER WIRING				
	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 M.S Conduit including the cost of circuit wiring from the relevant DB's with 3 x 4.0 sq mm stranded FRLS copper conductor in M.S Conduit . 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 M.S Conduit and again finishing the walls with Putty/ Cement/ POP to receive the final paint. [SOC]	Pts	10		
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 Raw Power DB (4 tables served by one circuit from LDB/PDB) Taken Above False ceiling and through walls/ partitions inside M.S. Conduits as raceways are not provided. Cost is inclusive of necessary cutting the walls and including M.S. Conduits as required for taking the wires.	Pts	10		
SECTION-D					
5	EARTHING				
5.1	Earthing with Copper earth plate 600 x 600 x 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc with charcoal/ coke and salt as required. Rate shall be inclusive of Providing & fixing 25 mm x 5 mm Cu strip on surface or in recess for connection as required.	Each	1		
5.2	Earthing with GI earth plate 600x600x3mmthick including accessories, and providingmasonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc with charcoal/ coke and salt as required.Rate shall be inclusive of Providing & fixing 25 mm x 5 mm G.I. strip on surface or in recess for connection as required.	Each	1		
SECTION-E					
6	LIGHTING FIXTURES (Bajaj or equivalent)				
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	DOWN LIGHT [DL] - 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.	Each	17		
b	PANEL LIGHT [PL] - 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.	Each	27		
d	1200 MM TUBE LIGHT [TL] - 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	10		
g	600 MM TUBE LIGHT - LED batten tubes, Glaze LED Batten, High quality aluminium extruded with decorative end caps, Wattage-10W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect. [FL]	Each	2		
h	RGB Strip light cuttable type of overall length 5M with drivers and remote	SET	2		



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Sl. No	Description	Unit	Qty	Rate	Amount
6.2	Supply and fixing of 10" - 12" Metal bladed exhaust fans with louvers.[EF]	EACH	4		
6.3	Supplying including fitting fixing of following star rated A.C. Ceiling fan complete with all accessories like down rod, canopy etc. of following sweeps with making necessary connection cable, as approved by the Deptt.s etc. as required complete and as directed by the Department [Without regulator]. (ORIENT PSPO make / Usha make/ CROMPTON make/ATC/ V GAURD make). Rates shall be inclusive of providing and fixing of M.S. fastner hooks for fixing the fan from the ceiling .				
	a) 1200 mm sweep [F]	EACH	1		
6.4	Supplying including fitting fixing of following star rated new 450 mm dia bracket/wall fan in metal body and metal blade of Orient Electric (TORNADO Wall Black Metal) 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 Department				
	a) 400- 450 mm sweep	EACH	9		
7	WIRING FOR DATA AND VOICE OUTLETS				
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	10		
7.2	Supplying, laying and fixing of PVC telephone flexible wire through specified dia PVC conduits / raceways of following size: 19", 9U SS Rack Mount Recessed Frame for DATA Terminations	LS	1		
8	A.C POINT WIRING				
	A.C. power point wiring from AC DB with 1100 volt grade 2 Nos. single core 6 sq.mm. + 1 No. 4 sq.mm. (Green colour for earthing) PVC insulated flexible FRLS copper conductor cable through suitable size M.S. conduit (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall complete with North-West make AC power unit having 25A Socket, 20A Starter, mounting box & front plate, interconnection, mending good all damages to original finish, painting etc. as required. All connections of wires to be done by means of 'Wago' type connectors.Rates shall be inclusive of cost of wires, wirings, sockets,starter, testing all complete	NOS	6		
A	TOTAL OF ELECTRICAL & OTHER RELATED WORKS				
	BUY BACK OF OLD ITEMS				
	GRAND TOTAL				
GENERAL NOTE					
1	UPS input and Output wiring should be done with FRLS Insulated stranded copper conductor laid through M.S Conduit. (From input DB to UPS and from UPS Output to				
2	All wires for circuit wiring and other wiring should be drawn inside M. S. Conduits Only unless otherwise specified				
3	Specifications of all wires should be followed strictly as mentioned in the BOQ				
4	All makes of materials should be strictly followed as mentioned in the detailed specifications of the Tender document				
5	Earthing Test Certificate should be provided alongwith the Final bill for further bill verification				
6	Single Line diagram showing the all the wiring including point wiring, computer and RAW power wiring, Circuit wiring etc. all complete should be submitted with the Final Bill				
7	Only DATA and Voice point wiring is allowed to be carried out through MS Conduits				