

STATE BANK OF INDIA BOQ FOR ELECTRICAL WORKS OF MYSORE BANK ROAD BRANCH, BENGALURU					
SI No	Particulars : Detailed Specifications	Unit	Quantity	Rate	Amount
PART-A : ELECTRICAL WIRING WORKS					
1	ENERGY METER CUBICLE : Fabrication, Supply, Installation, testing & 3 Nos. 200A Open Type bakelite cutout fuse unit with 160A HRC fuses 1 no. 250A 4 pole SFU with 160A HRC fuse (HPL/C&S/Indoasian) Complete with all inter connections and powder coated painting-RAL 7032	Set	0		0
2	BUILDING MAIN PANEL : MAINS CHANGE OVER PANEL Supply and installation of 125A, 4pole ON Load Change over panel with suitable metallic enclosure 2mm thick with cable entry Box and Powder coated painted with 6nos of 2A SP MCB and LED (R,Y,B) indicators for the identification of EB/ DG Set – ON & neat marking thereof: (GA drawing to be got approved from consultant/Engineer before fabrication & supply) a. Change over switch : 125A On-Load COS 1 nos b. MFM - (c 0.5) to show the V,A,pf,kW,kVA,etc 1 nos details (L&T or Schneider) c. SPD - Type-1+2 1 nos d. R,Y,B Indicators for EB & DG supply (6nos) 6 nos e. 1A SP MCB - 6 nos 6 nos OUT GOINGS F.63A, FP MCB(C-series) 4 nos g. 16A DP MCB (C-series) 0 nos h. CTs 0.5 class for the Metering 3 nos Complete with all inter connections and powder coated painting-RAL 7032 siemens grey.	Set	1		0
3	Supply & Installation of 20 KVAR automatic capacitor panel cubical type, floor mounting made of 16.SWG CRCA sheet., Incoming 63A, 25kA, 4P MCCB with spreader 1 nos 0-100A ammeter with selector switch 1 nos RYB indicating lamp 3 nos 0-500 Volts, Voltmeter 1 nos 6 Stage A.P.F.C. Relay 1 nos Outgoing 63A TP,MCB 4 nos Capacitor duty contactor 4 nos 5KVAr Resin Capacitor minimum 480V with Harmonic fitter 4 nos ON-OFF push button & Ind Lamp 8 nos	Set	0		0
					0
4	Main DB – (VTPN - DB): Supply, Installation, testing and Commissioning of Double Door TPN DB consisting of the following. Double door 4-way VTPN MCCB VDB Incomer : 63A,300mA 4P RCCB +63A MCB C-series 1 Outgoings : 63A, TP MCB (C-series) 0 nos to AC DB, PDB 40A, TP MCB (C-series) 2 nos to PDB, ATM DB,UPS 32A, TP MCB (C-series) 1 nos to LDB 10A, SP MCB (C-series) 1 nos to NB, AC	Set	1		0
					0

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	6A, SP MCB (C-series) 2 nos to direct points.. 4 4.00			0
	160A COPPER Bus-bar for 3 phases Complete with all interconnection			0
5	ACDB – (VTPN - DB): Supply, Installation, testing and Commissioning of Double door (4-way) VTPN MCB VDB consisting of the following. Double door 6-way VTPN MCB VDB Incomer 63A,300mA 4P RCCB +40A MCB C-series 1 set Outgoings : 40A, TP MCB (C-series) 1 nos to ODUs 25A, TP MCB (C-series) 1 nos to ODUs 16A, SP MCB (C-series) 1 nos to IDUs ACs 10A, SP MCB (C-series) 5 nos to 1Tr,1.5Tr AcS 160A COPPER Bus-bar for 3 phase 4 way Complete with all inter connections.	Set	1	0
				0
6	PDB: Supply, Installation, testing and commissioning of Double door TPN MCB DB consisting of the following. Double Door 4-way TPN MCB DB Incomer: 40A,100mA 4P RCCB +40A MCB C-series 1 set Outgoings : 25A,100mA DP RCCB 0 nos 10A, SP MCB (C-series) 6 nos 6A, SP MCB (C-series) 6 nos Complete with all inter connections	Set	1	0
				0
7	LDB: Supply, Installation, testing and Commissioning of Double door TPN MCB DB consisting of the following. Double Door 4-way TPN MCB DB Incomer : 40A,30mA 4P RCCB + 32A MCB (B-series) 1 set Outgoings : 25A,30mA DP RCCB 0 nos 10A, SP MCB (B-series) 3 nos 6A, SP MCB (B-series) 9 nos Complete with all inter connections.	Set	1	0
				0
8	ATM DB : Supply, Installation, testing and commissioning of Double door (8+4way) TPN MCB DB consisting of the following. Double Door 4-way TPN MCB DB Incomer: 40A,100mA 4P RCCB +40A MCB C-series 1 set Outgoings : 20A, SP MCB (C-series) 2 16A, SP MCB (C-series) 4 nos 6A, SP MCB (C-series) 2 nos 24hr digital timer 1NO,1NC 2 nos Complete with all inter connections.	Set	1	0
				0
9	BUS BAR Box – Supply, Installation, testing and Commissioning of single door Bus bar box with following .			0
	a. 100A Copper bus bars-25mmX3mm X150mm -4nos with insulators mounted on insulator bushes. \ \ for remote UPS Rooms	Set	1	0
	b. 200A Copper bus bars-25mmX4mm X150mm -4nos with insulators mounted on insulator bushes. \ \ for remote UPS Rooms	Set	0	0

				0
10	UPS IN PUT DB Supply and installation of 40 A FP MCB ISOLATOR in suitable metallic enclosure for UPS Input.	Set	2	0
				0
11	UPS OUT PUT DB Supply and installation of 63A DP MCB ISOLATOR in suitable metallic enclosure for UPS Input.	Set	2	0
				0
12	UPS CHANGE OVER PANEL: Supply erection testing and commissioning of 2 Nos. 32A rotary type change over switch in suitable metal box with 4 Nos. LED indicator for input / output identification. UPS Output change over switch board. Complete with all inter	Set	1	0
				0
13	COMPUTER DB: Supply, erection, testing and commissioning of wall mounted type double door dust and vermin proof SPN MCB DB fixed on wall comprising the following: SPN MCB DB - 12 way Incomer : 40A, DP MCB (C-series) 1 Outgoings : 10A, SP MCB (C-series) 0 6A, SP MCB (C-series) 8 Complete with all inter connections.	Set	2	0
				0
14	Supply and installation of suitable weather proof enclosure for local control of 3ph/1ph air conditioners. a. Supply and installation of 64A FP MCB (D-series) in suitable weather proof enclosure(IP65) for local control of 3ph/1ph air conditioners. b. Supply and installation of 20/32A DP MCB in suitable weather proof enclosure(IP65) for local control of 3ph/1ph air conditioners.	Set	1	0
		Set	2	0
				0
15	Supply and installation of 100A MCCB with rotary switch for master control of non essential load - near entrance in a suitable metallic enclosure 2mm thick with cable entry Box and Powder coated painted -RAL 7032.	Set	0	0
				0
16	CABLE LAYING AND TERMINATIONS: Supply, laying and dressing of the following size of 1.1 KV grade XLPE insulated armoured cable with aluminium conductor concealed or clamped on wall / ceiling / trench / cable tray if necessary. i) 4x240 Sq.mm AYFY ii) 4x95 Sq.mm AYFY iii) 4x70 Sq.mm AYFY iv) 4x50 Sq.mm AYFY v) 4x35 Sq.mm AYFY v) 4x25 Sq.mm AYFY vi) 4x16 Sq.mm AYFY vii) 4x10 Sq.mm AYFY viii) 3x6 Sq.mm AYFY	m	0	0
		m	0	0
		m	0	0
		m	50	0
		m	60	0
		m	10	0
		m	50	0
		m	20	0
		m	60	0
				0
17	End termination of the following size of cables using flange type cable glands and heavy duty tinned aluminium crimping type cable sockets including gland earthing. i) 4x240 Sq.mm AYFY ii) 4x95 Sq.mm AYFY iii) 4x70 Sq.mm AYFY	set	0	0
		set	0	0
		set	0	0

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iv) 4x50 Sq.mm AYFY	set	4	0
v) 4x35 Sq.mm AYFY	set	4	0
vi) 4x25 Sq.mm AYFY	set	4	0
vii) 4x16 Sq.mm AYFY	set	2	0
viii) 4x10 Sq.mm AYFY	set	4	0
ix) 3x6 Sq.mm AYFY	set	4	0
			0
18 GI - CABLE TRAY: Suppy and installation of medium duty GI Ladder type cable tray of following size. (Rate shall be inclusive of all bends supports,etc. And supports to be not more than 1000mm apart)			0
i) 500mmx50mm(WxH)	m	35	0
ii) 650mmx50mm(WxH)	m	5	0
			0
19 EARTHING AND LIGHTING PROTECTION			0
a. Supply and providing ISI pipe earthing as per IS 3043 with 2.5m long 40mm dia B class G.I. pipe providing GI clamp at the top of the GI pipe test joint, filling around the GI pipe at the radius of 15cm with homogeneous mixture of charcoal, common salt and river sand up to height of 2.5m from the bottom and the rest of the portion with excavated soil, providing brick work masonries, plastering, fixing cast iron cover of 30x30cm size etc. complete.	Set	2	0
b. Making of Copper plate(600mmx600mmx3mm) Earth-pit as per IS 3043 complete with charcoal, funnel set etc., including making of 450 x 450mm brick masonry chamber with CI / stone / fabricated / RCC cover with lifting handles stone / fabricated / RCC cover with ligting handles etc., complete as required.	Set	2	0
c. EARTH CONDUCTORS Supply and laying of the following size of bare copper conductor along with above cables, for interconnections between panels, DBs, change over switches etc.and also for interconnections between earth pits. i) No.10 SWG	m	150	0
d. Supply and laying of 2 X No. 10 SWG copper conductor through 20mm PVC conduit for UPS earthing.	m	50	0
e. Supply and laying of 25x3mm GI strip/tape supported on porcelain insulator on every 1m distance for lighting arrester system – the strip shall be insulated from having any direct contact from the building -shall use UPVC conduits while crossing the wall etc.	m	0	0
f. Supply and installation of - Copper Lightning arrester spike – of 1m supported over proper insulator and connected to GL strip using proper nut bolt system.	Nos	0	0
g. Supply & installation of 4m length 40mm dia C-class GI pipe to be fixed over the terrace of the building to erect Copper lightning arrester spike. The pole shall be mounted on insulators.	Set	0	0
h. Supply and providing tinned copper earth bench using 25 x 3 mm copper strip (20 Cm in length)	Set	3	0
			0

20	WIRING FOR LIGHT, FAN, PLUG, SOCKETS ETC : Point Wiring: Supply and wiring for light /fan/exhaust fan/calling bell/mirror lamp/ bulkhead light/ wall fans etc . With 3plate ceiling rose and by using 3x1.5 sqmm. (1.5sqmm) . PVC insulated copper conductor wire in 20mm dia 1.5mm thick rigid PVC conduit , controlled by 5A modular switches with provision for modular type Ceiling fan regulator on separately fabricated MS Box. The M.S box should be earthed properly. One way point.			0
a.	Single light point controlled by a 6 Amp switch.	Nos	52	0
b.	each Secondary light point connected to the single light points controlled by a switch.	Nos	70	0
c.	2-WAY controlled lighting point for staircase, bed switch etc.	Nos	0	0
d.	Wall fan / Exhaust fan point - 6A, 3 pin modular socket on suitable metal box for wall fan controlled by switch in common SB	Nos	12	0
e.	Ceiling fan point - controlled by 6A switch in common SB with modular stepped regulator.	Nos	5	0
				0
21	Supply and fixing of Modular type 5A 3pin plug points controlled by 5A modular switch mounted on suitable box (on common switch board) only in Strong room, Record/ Stationary rooms & Pantry	Nos	8	0
22	Supply and fixing of Modular type 5A 3 pin plug points with 5A modular type switch in separate location.	Nos	6	0
23	Raw Power Switch Box : Same as above but for 2 Nos. modular type 5 A 3 pin plug points with 2 nos. 5A modular type switch in separate location. (both sides of cash cabin desk, nodes etc)	Nos	18	0
24	Supply and fixing of modular type 15A plug socket with 15A modular type switch mounted on suitable Box. .(for Mgr cabin, Cash Cabin, Pantry, Water cooler, etc) .	Nos	2	0
25	Supply and installation of combined 5A modular plug socket with 5A modular switch & 15A combined modular plug socket with 15A modular switch in single box.(for EB supply at cashier counters / Manager cabin/UPS for ATM)	Nos	2	0
26	Supply and providing 16A plug top and 1.5m long 3 core 2.5Sqmm flexible copper cable (FRLS Type) for taking incoming supply from 16A socket. (For UPS/EB supply to back office manager & EB supply to strong room, line printer and record/ stationary rooms)	Nos	4	0
27	Supply and Installation of 25A Modular type 3 pin plug socket with suitable metallic box for air curtain/ air conditioners.	Nos	2	0
28	Supply and Installation of 20A /32A Modular type DP switch having indicator with suitable metallic box for the local control of the air conditioners/air Curtain.	Nos	2	0
29	UPS Power Stations ::: Supply install Test and commissioning of computer power stations with 3nos 5A modular type socketswith 1nos 15A modular type sockets controlled with(1nos. 15A modular type single pole switch with indicator mounted on M/S Box.) / controlled by master switch (item 39) The boxes should be Fixed on – wall/ partitions(wooden, concealed or open as required at site. Maximum 3 sets per Circuit.	Nos	24	0

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30	Same as above but for 2 Nos. modular type 15 A 3 pin plug points with 2 nos. 15A modular type switch in separate location.(for Data Kraft rack / I/O Rack/ Cash cabin)	Nos	2	0
31	Same as above but for 2 Nos. modular type 6 A 3 pin plug points with 2 nos. 6A modular type switch with indicator in separate location.(for counters, Head cashier , etc on wall panel/ partition - Above the table and on wall for token machine, CCTV, TV etc)	Nos	6	0
32	Supply, install, test and commissioning of 16A modular type master switch with indicator with suitable PVC box for the main control of UPS stations in the counters.(common switch to control all UPS station in each counter)	Nos	10	0
33	Supply & Installation of USB charger outlets controlled by 6A switch (in Privillage lounge/ Hall)	Nos	3	0
				0
34	CIRCUIT WIRING: Supply and wiring wall / floor etc. / recessed / surface as per colour code with 3 runs of 1.1KV grade 1.5 Sqmm PVC insulated flexible copper wire for phase neutral and earth conductor with standard colour coding, through ISI marked 20mm dia(medium) rigid PVC conduit with all accessories. The rate includes the cost of complete wiring from switch box to switch box. THE WIRING SHALL BE DONE CONSEALED .	m	40	0
35	Same as above but with 3 x 2.5 Sq.mm PVC Insulated copper wire(FRLS Type).(for lighting main circuit, 15A plug points & UPS point wiring) (power circuit to VRF IDUs)	m	920	0
36	Same as above but with 3 X 4sqmm. PVC insulated copper wire(FRLS Type). (for 1.5 / 2 T AC and UPS Out put COS to computer DB and for the Name Boards if there are multiple name boards or extra ordinary lengthy- Name Boards)	m	18	0
37	Same as above but with 3 x 6 Sq.mm PVC Insulated copper wire through rigid conduit (32mm) on wall and flexible conduit on floor for UPS Input.(4m length x 2 UPS) , AC input 3Tr/ 4Tr inv AC	m	15	0
38	Same as above but with 4 x 2.5 Sq.mm with 2 x 1.5 sq.mm (for3ph 3T inverter AC units) in 32mm dia conduit	m	0	0
39	Same as above but with 4 x 4Sq.mm with 2 x 2.5 sq.mm (for3ph 4T inverter AC units)	m	10	0
40	Same as above but with 4 x 6 Sq.mm with 1 x 4 sq.mm (for3ph UPS input)	m	16	0
41	Same as above but with 4 x 10 Sq.mm + 1 x 6 sqmmPVC Insulated copper wire through rigid conduit on wall of 38mm dia		10	0
				0
42	PVC CONDUITS:Supply and Fixing of following sizes of FRLS PVC conduit along with the accessories in surface in ceiling/ recess in walls, flooring including cutting the wall / floor etc., and making good the same in case of recessed conduit as required.			0

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a. 32mm dia. Conduit (Medium)	m	12	0
b. 25mm dia. Conduit (Medium)	m	15	0
c. 20mm dia. Conduit (Medium)	m	10	0
			0
43 LIGHT FIXTURES & FANS			0
a Supply and Installation of 36~40W 600mmx600mm Square recess mounting (gypsum board ceiling) LED type luminaire (including required fixing frame, chain for suspending from RCC ceiling) -Wipro, HPL, Anchor/Panasonic, Orcus, 595mmx595mm cut out	Nos	26	0
b Supply & installation of 20 ~18 Watts DLED type LED light fitting with lamps and white reflector on false ceiling (UPS Light points) - ~ 205mm cut out	Nos	20	0
c Supply & installation of 9~10 Watts DLED type LED light fitting with lamps and white reflector on false ceiling - ~135mm cut out	Nos	35	0
d Supply and Installation of minimum 5m length flexible LED strip lights of 22~24 watts in false ceiling coves of Blue / warm White shades with necessary LED driver of same make	m	80	0
e Supply and fixing of 2~3 watts LED spot lamp / swivel downlight - warm light for photoframe / decor lighting	Nos	5	0
f Supply and fixing of 1 X 20W LED Batten light set on wall /ceiling. Slim	Nos	16	0
g Supply and Installation of aluminium boby profile lights (20mm wide with necessary luminire and accessories (including required fixing frame) -Wipro, HPL, crompton/ passolite, Orcus, Philips, equivalent	m	30	0
h Supply and Installation of 36~40W out door type street light fixture LED including required fixing frame/pipe,) -Wipro, HPL, Havells, Orcus	Nos	0	0
i Supply & installation of 60 Watts LED light down lighter and on false ceiling (for double height area) - Wipro, HPL, Havells, Orcus, CGL.	Nos	1	0
j Supply & installation of calling bell	Nos	2	0
k Supply and installation of 9" size heavy duty exhaust fan. (Toilets/ dinning)	Nos	2	0
l Supply and installation of 12" size heavy duty exhaust fan. (UPS Room)	Nos	2	0
m Supply and Installation of 400 mm sweep wall fan.	Nos	2	0
n Supply amd installation of 1200mm sweep ceiling fan. 5 star rated. (High Speed) with regulator control	Nos	5	0
o Supply and providing fan rod with painting (upto 1m length) (other than that supplied with fan and if required)	Nos	5	0
p Supply and providing fan hook on ceiling.	Nos	5	0
q Supply and installation of 9W LED bulb with suitable batten holder (Toilets & UPS light points)	Nos	4	0
r Supply and Installation of step type modular electronic regulator, 100W	Nos	1	0

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44	Electrical safety - RUBBER mats of 1.1kV grade 1.8mx.0.9m	Nos	2	0
45	Supply and fixing of : 1nos First aid kit, Safety chart, Danger boards-2nos , No Admission boards-1nos	Set	1	0
46	Marking of Panels, DBs, its switch and fuse ratings, cable size, location etc (Neat identification from top to extreme load end of both light and power distribution including EB / UPS plug sockets and generator switch boards) using white / black paint and stencil. (free hand writing not allowed). Good quality stickers may also be used.	L.S	1	0
47	Charges for Preparation of SLD (Single Line Diagram) , Network diagram of the whole electrical & LAN installations using AutoCAD, Lamination and displaying it inside the UPS room. (Size – A3 /A2/A1).	L.S	1	0
48	Service charges for liaison work with EB authorities on behalf of bank for getting sanction for additional load, getting order for statutory payments, shifting/replacements of suitable. Energy meter meter if necessary, submission of completion report, obtaining final load sanction from concerned EB and displaying it in the UPS room after lamination. Etc.	L.S	0	0
49	Arranging temporary wiring for counters and cabins during renovation work	L.S	0	0
50	Removing old and unwanted wirngs, panels, fixtures from the premises, and disposing the same.	L.S	0	0
PART - A TOTAL AMOUNT IN FIGURES				0 0
PART-B TELEPHONE WIRING				
1	Supply and wiring using 2 pair telephone cable (0.5mm ²) in 20mm PVC conduit from the KRONE Box to the individual points. One separate cable for each point. Number of cables in one conduit limited to 5.			0
a.	2 pair telephone cabling	m	520	0
b.	10 pair telephone cabling	m	40	0
				0
2	Supply and fixing of RJ 11 type modular telephone socket on suitable PVC / metal boxes.			0
a.	Telephone socket - single (modular type)	Nos	11	0
b.	Telephone socket - double (modular type)	Nos	1	0
				0
3	Supply and installation of KRONE connector telephone junction box of 40 pair (double door type).	Set	0	0
4	Supply and installation of KRONE connector telephone junction box of 20 pair.	Set	1	0
PART - B TOTAL AMOUNT IN FIGURES				0
PART-C : PA & MUSIC SYSTEM				
1	Supply and wiring as per colour code transparent speaker cable 1.50sqmm PVC insulated stranded copper wire 2 runs through ISI grade 20mm conduit for speakers.	m	120	0

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2	Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker.	Nos	8	0
PART - C TOTAL AMOUNT IN FIGURES				0
PART-D : DATA CABLING				
1	Supply and laying of CAT 6 UTP cable through 25mm dia rigid PVC conduit with all accessories etc.(2 run for SBI Connect also)	m	1800	0
2	Supply and fixing of 2nos of CAT 6 Modular Information outlet with SM box on wall / partitions etc.	Nos	24	0
3	Supply and fixing of 1nos of CAT 6 Modular Information outlet with SM box on wall / partitions etc.	Nos	4	0
4	Supply and installation of 16U wall mounted type rack. (HCL/Valrack make)	Nos	1	0
5	Supply and Installation of CAT6 24 port patch panel in the floor/wall mounted type rack. With cable manager	Nos	2	0
6	Supply and installation of CAT6 26 port (1000Mbps) switch in the wall/floor mounted type rack. Make/Model- Cisco2960/2960x only	Nos	0	0
7	Supply and installation of 1 m long patch chord. (CAT 6)	Nos	52	0
8	Supply and installation of 2 m long patch chord. (CAT 6)	Nos	26	0
9	Supply and installation of 3 mlong patch chord. (CAT 6)	Nos	2	0
10	Supply and installation of 5 mlong patch chord. (CAT 6)	Nos	2	0
11	Testing of NODES with reports. (with PENTA scan reports)	Nos	52	0
PART - D TOTAL AMOUNT IN FIGURES				0
PART - A				0
PART - B				0
PART - C				0
PART - D				0
Grand TOTAL				<u>0</u>