

BOQ FOR ELECTRICAL AND LAN WORKS FOR CANARA BANK, DOOMDOOMA BRANCH					
A ELECTRICAL WORKS--BRANCH (A)					
Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
1	<b>Distribution System.</b>				
	Supply, Installation, Testing and Commissioning of Factory Manufactured Single/Three Phase & Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure, IP 43, 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.				
a	63 A 4P MCCB, 25 KA in Sheet Steel Enclosure (Make Legrand)	No.	1		
b	63 A 4P on load changeover switch in Sheet Steel Enclosure (Make HPL)	No.	1		
c	<b>MAIN-DB</b>	No	1		
	SITC of 4 way TPN Double Door Vertical MCB Distribution Board with following MCCB/MCB/RCCB & cable end boxes at Input & Output.				
	63A 4P MCCB 16 KA – 1 No.				
	16A/20A/25A/32A SP MCB – 09 Nos.				
	40A 3P MCB-1NO.				
d	<b>LIGHT DB</b>	No	1		
	SITC of 16 way SPN Double Door MCB Distribution Board with following MCB/RCCB & cable end boxes at Input & Output.				
	Incomer:				
	25A DP MCB-1NO.				
	25 AMP DP RCCB, 30 Milliamp Sensitivity-1 No.				
	Out Going:				
	6Amp S P Amp MCB--12 Nos				
e	<b>DB-AC/POWER:</b>	No	1		
	SITC of 4 Way TPN (8+12WAY) Double Door MCB Distribution Board with Following MCB/RCCB & Cable end Boxes at Input & Output.				
	Incomer:				
	40A 4P MCB-1No.				
	40AMP 4P RCCB 30Milliamp Sensitivity-1no.				
	OutGoing:				
	16/20/25 Amp SP Amp MCB--12 Nos				
f	<b>U.P.S. (INPUT) D.B. :</b>	No	1		
	SITC of 12 way SPN Double Door MCB Distribution Board with following MCB/RCCB & cable end boxes at Input & Output.				
	Incomer:				
	32 A DP MCB - 1 No.				
	40 Amp DP R.C.C.B., 30 Milliamp sensitivity- 1 No.				
	Outgoing:				
	110/16/20/25 Amp S.P. Amp M.C.B. - 8 Nos				
g	<b>UPS DB</b>	No.	1		
	SITC of 12Way SPN Double Door MCB Distribution Board With Following MCB/RCCB & Cable end boxes at Input & Output				
	Incomer:				
	25A DP MCB--1No.				
	25AMP DP RCCB 100 Milliamp sensitivity--1no.				
	Outgoing:				

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
	10Amp S P Amp MCB--8nos				
h	DB-Inverter	No.	1		
	SITC of 8way SPN Double Door MCB Dsitribution Board with Following MCB/RCCB & Cable end Boxes at Input & Output				
	25A DP RCCB 30mA sensitivity--1no.				
	10A SP MCB--4Nos				
	Blank Plate--2nos				
i	SITC of Modular 16 Amp SP MCB with 16 A socket outlet in Metallic box for inverter input & output	No.	2		
j	SITC of 25 Amp. DP MCB in Metallic box for input & output of UPS	No.	4		
2	Light Point/Raw Power Point/UPS Point/Fan Point wirings				
	Wiring with I.S.I. marked 1.1 KV grade 2 x 1.5 Sq.mm + 1 x 1.5 sqmm (Green for earth) multi-strand F.R.L.S. Copper P.V.C. wires in 19/25 mm Medium grade I.S.I. marked steel conduits to be laid on wall/above false ceiling/Through Modular Furniture slots etc complete with all conduit accessories like bends, tees, Junction boxes with necessary hardware etc. including re-surfacing of the floor/wall etc. wherever necessary with Resurfacing material for Lights, fans, exhaust fans, 6Amps socket outlets etc. Point wiring to include cost of wiring in PVC conduits, Installation, Testing, Commissioning and fixing of switch, sockets, boxes, plates & accessories and circuit wiring with 2x2.5 sqmm + 1x1.5 sqmm (green for earth) multi-strand F.R.L.S. Copper P.V.C. wires in 19/25 mm Medium grade I.S.I. marked steel conduits to be laid on wall/above false ceiling including all accessories complete.				
a	Single Light points controlled by 6 Amp switch.	No	15		
b	Two Light points controlled by one 6 Amp Switch.	No	16		
c	Theree light points controlled by One 6Amp Switch	No.	1		
d	Call Bell Buzzer (Ding Dong) controlled by 6 Amp Bell Push switch.	No	1		
e	6 Amps 3/5 Pin combination type socket with switch mounted on switch-box.	No	10		
f	Ceiling Fan, Points with 6 A Switch and regulator	No	2		
g	Wall Fan & Exhaust Fan (in existing holes) Points with 6 A Switch and 6A socket	No	15		
3	Raw Power + UPS Power, Power Points & AC Points				
a	Supply, Installation, Testing and Commissioning of Recessed 1 Nos. 6 Amp 5 Pin Sockets controlled by one 6 Amp switch complete with Flush surface plate for Raw Power On Work-Stns including wiring with 2x2.5 sqmm + 1x1.5 sqmm Cu (green for earth) multistrand conductors with all accessories as necessary complete.	No	5		
b	Supply.Installation .Testing &.Commissioning .of Recessed 3 Nos of 6 Amp 5 Pin Sockets controlled by one 16 Amp switch complete with flush surface plate for UPS power on work stations including wiring with 2x2.5 sqmm + 1x1.5 sqmm Cu (green for earth) multistrand conductors with all accessories as necessary complete.	No	7		

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Sl.No.		Description of Item	UNIT	QTY	RATE	AMOUNT
	c	Supply Installation Testing & commissioning of 2 Nos of 6 Amp Sockets controlled by one 16 Amp switch and 1 No of 6/16 Amp Sockets controlled by one 16 Amp switch housed in a Modular PVC switch Box including wiring with 2x2.5 sqmm + 1x1.5 sqmm Cu (green for earth) multistrand conductors with all accessories as necessary complete.	No	2		
	d	Supply, Installation, Testing and Commissioning of point for 1.0Tr AC with 25 Amp sockets housed in a Modular MS switch Box with Flush surface plate for Power Points including wiring with 2x4 sqmm + 1x2.5 sqmm Cu (green for earth) multistrand conductors in steel conduits with all accessories as necessary complete.	No	4		
	e	Supply, Installation testing and commissioning of point for 1.0Tr AC with 25 Amp sockets housed in a Modular PVC switch box and Modular starters housed in a separate Modular MS box with face plate etc. as required complete including wiring with 2x6 sqmm +1x4 sqmm CU (green for earth) multistrand conductors in steel conduits with all accessories as necessary complete	No	1		
	f	Supply, Installation, Testing and Commissioning of point for AC with 25 Amp sockets housed in a Modular PVC switch Box and modular starters housed in a separate Modular MS Box with Face Plate etc. as required complete including wiring with 2x6 sqmm + 1x4 sqmm Cu (green for earth) multistrand conductors in steel conduits with all accessories as necessary complete.	No	3		
4		SUB-MAIN WIRING				
		Supply, Installation, Testing and Commissioning of with 1100 V grade PVC insulated multi stand FRLS copper conductor cable confirming IS 694 through 25 mm dia rigid steel conduit on wall with MS bar saddle , interconnection, painting, making good to all damages etc. as required to be complete in all respect wherever required.	Mtr			
	a	With 2 X 2.5 Sq.mm. + 1x2.5 sqmm (green for earth).	Mtr	50		
	b	With 2 X 4 Sq.mm. + 1 x 4 sqmm (green for earth).	Mtr	5		
	c	With 2 X 6 Sq.mm. + 1 x 6 sqmm (green for earth).	Mtr	40		
	d	With 4 X 10 Sq.mm. + 2 x 10 sqmm (green for earth).	Mtr	5		
	e	With 4 Core 25 sqmm Armoured Aluminum U.G. cable	Mtr	5		
	f	With 3½ Core 25 sqmm Armoured Aluminum U.G. cable	Mtr	35		
5		BRANCH POWER INDICATOR LAMPS				
	a	Supply instalaltion Tesating & commissioning of surface type Metal box made of sheet steel and thickness not less that 2mm and structural steel having light section completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint with front mounted pilot lamps for main supply, light DB, UPS DB & AC/Power DB.	Each	1		

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A ELECTRICAL WORKS--BRANCH (A)					
Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
b	Supply Insatllation Testing and commissioning of 2x1.5sqmm 1100 V grade PVC insulated multi Stand FRLS copper conductor cable confirming IS694 through 25mm dia PVC conduit on wall with saddle, interconnection, painting, making good to all damages etc. as required to be complete in all respect whrever required.	mtr	100		
5	<b>LIGHTING FIXTURES :</b>				
a	Supply, installation and testing of 36W recessed mounted 2ft x2ft LED ultra modern Slim recess mounting luminaire LED Office compliant fully diffused recessed mounted 2'X2' LED with microprismatic diffuser suitable for indoor spaces of make Philips Model SoftGlow Cat No. RC380B LED36S-6500 G5 L60W60 PSU OD SG or equivalent. Rate to include cost of lamps. [CLT]	No	19		
b	Supply, installation and testing of 15 W LED recess-mounted round panel with aluminium die cast housing downlighter of make Jaquar Model Neve Plus (Round) Cat No. LNEP01R015XC or equivalent. Rate to include cost of lamps. [DL]	No	14		
c	Supply, installation and testing of 12W LED surface-mounted round panel with aluminium die cast housing 30mm height LED downlighter of make Jaquar Model Nero Surface (Round) Cat No. LNRO02R012SC or equivalent. Rate to include cost of lamps. [CL]	No	7		
d	Supply, Installation, Testing and commissioning of 1x24 W Extruded Aluminium 4ft batten suitable for Surface, Wall & Conduit mounting (with accessories) of make Jaquar Model Glaze Cat No. BTI-WHT-LGLZ01X024XN or equivalent including lamps, drivers etc. as required complete. [TL]	No	6		
e	Supply, Installation, Testing and Commissioning of 1x10 W LED Batten with High quality design extruded aluminium with decorative end caps, Frosted PMMA / PC diffuser, Constant current Isolated driver of make Jaquar Model Glaze LED Batten Cat No. LGLZ01X010XC or equivalent including lamps, drivers etc. as required complete. [ML]	No	0		
f	Supply, Installation, Testing and Commissioning of Angle batten holder of Penta code 38538 or equivalent make as required with 1x12W LED Lamp [BK]				
6	<b>Ceiling Fan / Wall (Cabin Fan) / Exhaust Fan:</b>				
a	Supply, Installation, Testing and Commissioning of 1200mm sweep Ceiling Fans with connection of make Orient Model SUMMERKING (XI Aluminium Blades) or equivalent with all accessories.	No	2		
b	Supply, Installation, Testing and Commissioning of 300mm sweep Exhaust Fans with connection from existing 6A socket outlet (rate for socket and connection to the socket to be taken separately)	No	5		
c	Supply, Installation, Testing and Commissioning of 450 mm sweep Wall mounted Fans with connection from existing 6A socket outlet (rate for socket and connection to the socket to be taken separately)	No	10		
7	<b>Earthing System:</b>				

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A ELECTRICAL WORKS--BRANCH (A)						
Sl.No.		Description of Item	UNIT	QTY	RATE	AMOUNT
	a	Supply, Installation, Testing and Commissioning of Copper Plate Type Earth Pit as per I.S. 3043. Concrete Chamber with Mettalic cover, Funnel for adding water and Earth Strip Connector etc must be provided complete.	No	4		
	b	Earthing with GI earth palte 600mmx600mmx6mm thick inlcuding accessories and providing masonary enclosure with cover plate having locking arrangement and watering pipe of 2.7metre long etc. with charcoal coke and salt as required.	No.			
	c	Repairing of existing Pipe/Plate Earthing including digging soil, filling with Salt and Charcoal, cleaning all debries and refilling with soil making concrete chamber, metallic cover, funnel etc. as necessary with suitable provision for connection with earth strip etc. complete.	No.	2		
	d	Supply, Installation, Testing and Commissioning of 2nos 10 Sqmm PVC copper wires taken togetthter in Rigid steel Conduit from Earthth pit to Main63A 4P MCCB in Metal Boxes at the out pour of Branch Meter (2nos).	Mtr			
	e	Second set of 2X 6 Sq.mm. PVC earth wires in Conduit to be taken from Earth Pit directly to the UPS room and connected to UPS Output D.B. from Earth Pit directly to the UPS of ATM and connected to UPS Output D.B.	Mtr.	120		
8		MISCELLENOUS MATERIALS.				
	a	Supply, Installation, Testing and Commissioning of Light Point with Timer for Branch Sign Board whose location may be decided in consultation with Branch Head.	No	1		
		SUB TOTAL (A)				-
B	BOQ FOR ELECTRICAL WORKS CANARA BANK DOOMDOOMA BRANCH ATM--(B)					
s.no		DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
1		DSITRIBUTION SYSTEM				
		Supply, Installation, Testing & Commissioning of factory Manufactured single/Three Pahse & Neutral Doublke door Distribution Board made out of 16SWG Shet steel enclosure, IP43, 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 & Out going cables. DB's shall be flush mounitng type for both single & three phase.				
	a	ATM (INPUT) DB	No	1		
		SITC of 8 Way SPN Double DOOR MCB Distribution Board with Following MCB/RCCB & cable end boxes at Input & Out put				
		25A DP MCB--1No.				
		20SP MCB--2No.				
		25A MCB--1No.				
		Blank Plate--3Nos				
	b	ATM DB	No.	1		

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
	SITC of 12way SPN Double Door MCB Distribution Biard with Following MCB/RCCB & cable end boxes at Input & Out put				
	Incomer:				
	25A DP MCB--1No.				
	25AMP DP RCCB 100 Milliamp sensitivity--1no.				
	Outgoing:				
	20AMP S P MCB--2nos				
	16AMP SP MCB--1No				
	10AMP SP MCB--5nos				
2	Wiring with I.S.I. marked 1.1 KV grade 2 x 1.5 Sq.mm + 1 x 1.5 sqmm (Green for earth) multi-strand F.R.L.S. Copper P.V.C. wires in 19/25 mm Medium grade I.S.I. marked steel conduits to be laid on wall/above false ceiling/Through Modular Furniture slots etc complete with all conduit accessories like bends, tees, Junction boxes with necessary hardware etc. including re-surfacing of the floor/wall etc. wherever necessary with Resurfacing material for Lights, fans, exhaust fans, 6Amps socket outlets etc. Point wiring to include cost of wiring in PVC conduits, Installation, Testing, Commissioning and fixing of switch, sockets, boxes, plates & accessories and circuit wiring with 2x2.5 sqmm + 1x1.5 sqmm (green for earth) multi-strand F.R.L.S. Copper P.V.C. wires in 19/25 mm Medium grade I.S.I. marked steel conduits to be laid on wall/above false ceiling including all accessories complete.				
	a Two Light points controlled by one 6 Amp Switch.	No.	2		
	b 6 Amps 3/5 Pin combination type socket with switch mounted on switch-box.	No.	1		
	c Wall Fan & Exhaust Fan (in existing holes) Points with 6 A Switch and 6A socket	No.	1		
3	<b>Raw Power + UPS Power, Power Points &amp; AC Points</b>				
	a Supply, Installation, Testing and Commissioning of Recessed 1 Nos. 6 Amp 5 Pin Sockets controlled by one 6 Amp switch complete with Flush surface plate for Raw Power On Work-Stns including wiring with 2x2.5 sqmm + 1x1.5 sqmm Cu (green for earth) multistrand conductors with all accessories as necessary complete.	No.	1		
	b Supply Installation Testing & commissioning of 2 Nos of 6 Amp Sockets controlled by one 16 Amp switch and 1 No of 6/16 Amp Sockets controlled by one 16 Amp switch housed in a Modular PVC switch Box including wiring with 2x2.5 sqmm + 1x1.5 sqmm Cu (green for earth) multistrand conductors with all accessories as necessary complete.	No.	1		
	c Supply Instalaltion and Commissioiing of Universal AC controller for 2AC's with tiomer inlocuding wiring multistrand conductors with all necessary complete	No.	1		

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A ELECTRICAL WORKS--BRANCH (A)						
Sl.No.		Description of Item	UNIT	QTY	RATE	AMOUNT
	d	Supply, Installation, Testing and Commissioning of point for 1.0Tr AC with 25 Amp sockets housed in a Modular MS switch Box with Flush surface plate for Power Points including wiring with 2x4 sqmm + 1x2.5 sqmm Cu (green for earth) multistrand conductors in steel conduits with all accessories as necessary complete.	No.	2		
4		SUB-MAIN WIRING				
		Supply, Installation, Testing and Commissioning of with 1100 V grade PVC insulated multi stand FRLS copper conductor cable confirming IS 694 through 25 mm dia rigid steel conduit on wall with MS bar saddle , interconnection, painting, making good to all damages etc. as required to be complete in all respect wherever required.				
	a	With 2 X 6 Sq.mm. + 1 x 6 sqmm (green for earth).	Mtr	50		
5		LIGHTING FIXTURES :				
	a	Supply, installation and testing of 36 W LED recess-mounted round 2ft by 2ft LED Ultra Modern Slim recess mounting Luminaire with High performance LEDs of make Jaquar Model ULTIMA SLIM Cat No. LULTSLS036XC or Equivalent. rate to include cost of lamps. (CLT).	No.	2		
	b	Supply, installation and testing of 12W LED surface-mounted round panel with aluminium die cast housing 30mm height LED downlighter of make Jaquar Model Nero Surface (Round) Cat No. LNRO02R012SC or equivalent. Rate to include cost of lamps. [CL]	No.	2		
6		Ceiling Fan / Wall (Cabin Fan) / Exhaust Fan:				
	a	Supply, Installation, Testing and Commissioning of 450 mm sweep Wall mounted Fans with connection from existing 6A socket outlet (rate for socket and connection to the socket to be taken separately)	No.	1		
7		Earthing System:				
	a	Supply, Installation, Testing and Commissioning of Copper Plate Type Earth Pit as per I.S. 3043. Concrete Chamber with Mettalic cover, Funnel for adding water and Earth Strip Connector etc must be provided complete.	No.	1		
	b	Second set of 2X 6 Sq.mm. PVC earth wires in Conduit to be taken from Earth Pit directly to the UPS room and connected to UPS Output D.B. from Earth Pit directly to the UPS of ATM and connected to UPS Output D.B.	Mtr	15		
8		MISCELLENOUS MATERIALS.				
	a	Supply, Installation, Testing and Commissioning of Light Point with Timer for Branch ATM Sign Board whose location may be decided in consultation with Branch Head.	No.	1		
		SUB TOTAL (ATM)---B				

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A ELECTRICAL WORKS--BRANCH (A)						
Sl.No.	Description of Item		UNIT	QTY	RATE	AMOUNT
BOQ OF LAN - DATA & TELEPHONE FOR DOOMDOOMA BR & ATM						
C	SLN	ITEM DESCRIPTION	QTY	UoM	RATE	AMOUNT
	1	Unshielded Twisted Pair CAT-6 cable laid through round PVC conduits	450	mtrs		
	2	CAT-6 RJ-45 information outlets	10	nos		
	3	Dual Port Face Plates	5	nos		
	4	1 mtr Cat-6 UTP patch cord	10	nos		
	5	2 mtr Cat-6 UTP patch cord	10	nos		
	6	CAT-6 RJ-45 loaded 24 port patch panel	1	nos		
	7	24 port 10/100/1000 mbps Gigabit unmanaged Layer-2 switch	1	no		
	8	12 U wall mounted equipment rack	1	no		
	9	2PSTN 16 extension IP type hybrid rack mounted EPABX	1	no		
		SUB TOTAL AMOUNT C				
		Grand Total of DOOMDOOMA Branch & ATM Electrical and Lan works (A+B+C)				

LIST OF APPROVED MATERIALS			
	DESCRIPTION	Approved Makes	
1	Steel Conduit	BEC/Precision/Universal/VIP/	
2	Ceiling Junction Boxes	Amar/Home lite	
3	Wires & cables	Polycab/Havells/R.R./Finolex	
4	Modular Switches, Sockets etc	Legrand/Hager/M.K./Havells/ L. & T. Elleys	
5	Lighting Fixtures	Jaquar/Philips/Wipro/Crompton/ Havells/Polycab/SYSKA	
6	M.C.B./RCCB/RCBO etc	Hager/Legrand/ABB/L&T	
7	Distribution Boards	Same As Above	
8	MCCB	Same As Above	
9	Change Over Switches	L. & T./Hager/H.P.L./A.B.B./Standard	
10	End Termination accessories	Dowells/Usha/Brecco/Cosmos	
11	Fans/Exhaust fans	Orient/Crompton/Bajaj/Havell/ USHA	