

BOQ FOR ELECTRICAL AND LAN WORKS FOR CANARA BANK, DOBOOKA BRANCH					
A ELECTRICAL WORKS					
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 & E arth 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 6 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 SP MCB – 18 Nos.				
	d <b>MCBDB-Inverter</b>	No	1		
	SITC of 8 way SPN Double Door MCB Distribution Board with following MCB/RCCB & cable end boxes at Input & Output.				
	25A DP RCCB 30 mA sensitivity – 1 No.				
	10A SP MCB – 4 Nos.				
	Blank Plate - 2 Nos.				
	e <b>U.P.S. 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:				
	25 A DP MCB - 1 No.				
	25 Amp DP R.C.C.B., 100 Milliamp sensitivity- 1 No.				
	Outgoing:				
	10 Amp S.P. Amp M.C.B. - 8 Nos				
	f <b>RAW POWER 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:				
	25 A DP MCB - 1 No.				
	25 Amp DP R.C.C.B., 30 Milliamp sensitivity- 1 No.				
	Outgoing:				
	10 Amp S.P. Amp M.C.B. - 8 Nos				
	g <b>LIGHT D.B. :</b>	No	1		
	SITC of 16 way SPN Double Door MCB Distribution Board with following MCB/RCCB & cable end boxes at Input & Output.				
	Incomer:				
	25 A DP MCB - 1 No.				
	25 Amp DP R.C.C.B., 30 Milliamp sensitivity- 1 No.				
	Outgoing:				
	6 Amp S.P. M.C.B. - 12 Nos				
	h <b>ATM DB</b>	No	1		

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	SITC 12 way SPN Double Door MCB Distribution Board with following MCB/RCCB & Cable end boxes at Input & Out put.				
	Incomer:				
	25A DP MCB--1no.				
	25AMP DP RCCB, 30Milliamp Sensitivity--1no.				
	Outgoing:				
	20AMP SP MCB--2nos				
	16AMP SP MCB--1no				
	10AMP SP MCB--5nos				
	<b>i S.I.T.C of Modular 16 Amp. S.P. MCB with 16A socket outlet in Metallic box for Inverter input and output</b>	No.	2		
	<b>i S.I.T.C of 25 Amp. D.P. MCB in Metallic box for input and output of UPS</b>	No.	4		
<b>2</b>	<b>Light Point/Raw Power Point/UPS Point/Fan Point wirings</b>				
	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.				
	<b>a</b> Single Light points controlled by 6 Amp switch.	No	10		
	<b>b</b> Two Light points controlled by one 6 Amp Switch.	No	8		
	<b>c</b> Three light points controlled by One 6Amp Switch	No.	2		
	<b>d</b> Call Bell Buzzer (Ding Dong) controlled by 6 Amp Bell Push switch.	No	1		
	<b>e</b> 6 Amps 3/5 Pin combination type socket with switch mounted on switch-box.	No	7		
	<b>f</b> Ceiling Fan, Points with 6 A Switch and regulator	No	3		
	<b>g</b> Wall Fan & Exhaust Fan (in existing holes) Points with 6 A Switch and 6A socket	No	16		
<b>3</b>	<b>Raw Power + UPS Power, Power Points &amp; AC Points</b>				
	<b>a</b> 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	8		
	<b>b</b> S.I.T.C.Of 3 Nos of 6 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	10		

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c	S.I.T.C.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	3		
d	Supply, Installation, Testing and Commissioning of power point with 16 Amp Switch and 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 sreel conduits with all accessories as necessary complete.	No	4		
e	Supply, Installation testing and commissioning of Universal AC controller fro 2ACs with timer inlcuding wiring multistrand conductors 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	7		
<b>4</b>	<b>SUB-MAIN WIRING</b>				
	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	15		
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 2 X 10 Sq.mm. + 1 x 10 sqmm (green for earth).	Mtr			
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	25		
<b>5</b>	<b>LIGHTING FIXTURES :</b>				
a	Supply, installation and testing of 36W 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	16		
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	34		

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
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	10		
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	8		
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	3		
f	Supply, Installation, Testing and Commissioning of Angle batten holder of Penta code 38538 or equivalent make as required with 1x12W LED Lamp [BK]				
<b>6</b>	<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	3		
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	11		
<b>7</b>	<b>Earthing System:</b>				
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 including accessories and providing masonry 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		

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	<b>d</b> Supply, Installation, Testing and Commissioning of 2nos 10 Sqmm PVC copper wires taken together in Rigid steel Conduit from Earth pit to Main63A 4P MCCB in Metal Boxes at the out pour of Branch Meter (2nos).	Mtr			
	<b>e</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.	35		
<b>8</b>	<b>MISCELLENOUS MATERIALS.</b>				
	<b>a</b> 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		
	<b>TOTAL A</b>				

**BOQ OF LAN - DATA & TELEPHONE**

<b>B</b>	<b>SLN</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UoM</b>	<b>RATE</b>	<b>AMOUNT</b>
	1	Unshielded Twisted Pair CAT-6 cable laid through round PVC conduits	415	mtrs		
	2	CAT-6 RJ-45 information outlets	16	nos		
	3	Dual Port Face Plates	8	nos		
	4	1 mtr Cat-6 UTP patch cord	16	nos		
	5	2 mtr Cat-6 UTP patch cord	16	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		
		TOTAL AMOUNT B				
		<b>Grand Total of Electrical and Lan works (A+B)</b>				-

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<b>LIST OF APPROVED MATERIALS</b>					
	<b>DESCRIPTION</b>	<b>Approved Makes</b>			
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	Hagger/Legrand/ABB/L&T			
7	Distribution Boards	Same As Above			
8	MCCB	Same As Above			
9	Change Over Switches	L. & T./Hagger/H.P.L./A.B.B./Standard			
10	End Termination accessories	Dowells/Usha/Brecco/Cosmos			
11	Fans/Exhaust fans	Orient/Crompton/Bajaj/Havell/ USHA			