

BOQ FOR ELECTRICAL AND LAN WORKS FOR CANARA BANK, SIPAJHAR BRANCH					
A ELECTRICAL WORKS					
Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
1	Distribution System.				
	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 MAIN-DB	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 SP MCB – 6 Nos.				
	25A SP MCB – 10 Nos.				
	32A SP MCB – 2 Nos.				
	d MCBDB-Inverter	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 U.P.S. D.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 RAW POWER D.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 LIGHT D.B. :	No	1		

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	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. Amp M.C.B. - 12 Nos				
h	ATM DB:	No.	1		
	SITC of 8Way SPN Double Door MCB Distributuoin Board with following MCB/RCCB & Cable End Boxes at Input & output				
	Incomer:				
	25A DP MCB--1No.				
	25AMP DP RCCB, 30 Milli amp Saensitivity-1No.				
	Out Going:				
	10AMP SP AMP MCB--4Nos				
h	S.I.T.C of Modular 16 Amp. S.P. MCB with 16A socket outlet in Metallic box for Inverter input and output	No.	2		
i	S.I.T.C of 25 Amp. D.P. MCB in Metallic box for input and output of UPS	No.	2		
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	27		
b	Two Light points controlled by one 6 Amp Switch.	No	17		
c	Call Bell Buzzer (Ding Dong) controlled by 6 Amp Bell Push switch.	No	1		
d	6 Amps 3/5 Pin combination type socket with switch mounted on switch-box.	No	7		

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
e	Ceiling Fan, Points with 6 A Switch and regulator	No	2		
f	Wall Fan & Exhaust Fan (in existing holes) Points with 6 A Switch and 6A socket	No	14		
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	8		
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	6		
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	3		
	AC WIRING & TIMER (ATM)				
e	Supply Installation testing & commissioning of Uiversal AC controller for 2Acs with timer (ATM) including wiring multistrand conductors with all 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	6		
4	SUB-MAIN WIRING				

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
	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).				
	e With 4 Core 25 sqmm Armoured Aluminum U.G. cable	Mtr	10		
	f With 3½ Core 25 sqmm Armoured Aluminum U.G. cable	Mtr	35		
5	LIGHTING FIXTURES :				
	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	21		
	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	17		
	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	11		
	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	4		
6	Ceiling Fan / Wall (Cabin Fan) / Exhaust Fan:				

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
	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	9		
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	4		
	b 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		
	c Supply, Installation, Testing and Commissioning of 2nos 10sqmm. PVC Copper Wires taken together in Rigid Steel Conduit from Earth Pit Directly to Main 63A 4P MCCB in Metal Boxes at the output of branch Metrer (2nos)				

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
c	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		
8	MISCELLENOUS MATERIALS. Light Point for GSB				
a	Supply, Installation, Testing and Commissioning of Light Point with Timers for Branch & ATM Glow Sign Board whose location may be decided in consultation with Branch Head.	No	1		
	TOTAL A				-

BOQ OF LAN - DATA & TELEPHONE

B	SLN	ITEM DESCRIPTION	QTY	UoM	RATE	AMOUNT
	1	Unshielded Twisted Pair CAT-6 cable laid through round PVC conduits	425	mtrs		
	2	CAT-6 RJ-45 information outlets	14	nos		
	3	Dual Port Face Plates	7	nos		
	4	1 mtr Cat-6 UTP patch cord	14	nos		
	5	2 mtr Cat-6 UTP patch cord	14	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				
		Grand Total of Electrical and Lan works (A+B)				-

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/		
5	Lighting Fixtures	Jaquar/Philips/Wipro/Crompton/		

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Sl.No.	Description of Item	UNIT	QTY	RATE	AMOUNT
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			