

SOQ FOR ELECTRICAL WORKS FOR CANARA BANK WING BRANCH TALUKA KARAD					
<u>ALL FRLS wires to be used</u>					
SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	Type of wiring	Concealed			
	Casing capping (as per approval)	Modi make/ Precision (ISI grade)			
	PVC pipe and accessories	Precision / Polycab / Swastik (ISI make)			
	Wires	Polycab / Finolex / R R kabel make with flexible copper conductor, FRLS grade insulation			
	Computer DataCable	D-Link / Molex / Awaysa make			
	cable	Polycab / Finolex / R R kabel make (ISI grade)			
	MCB / MCB DB	L & T, Legrand / Siemens (ISI)			
	ELMCB	L & T, Legrand / Siemens (ISI)			
	Ft. tubes & fixtures	Philips / Wipro / Crompton / Havells / Bajaj			
	Ceiling fans	Crompton Greaves / Havells / Usha			
	screws	Nettlefold			
	Earthing material	Strictly Bare Copper and with charcoal			
	Switch fuse unit	L & T make (ISI)			
	Switches/sockets & accessories	Legrand / Anchor Roma Modular type			
	switchboards	Concealed modular type			
	Copper strip type busbar	Havells / Standard make			
	ONLINE UPS	Fuji / Vertiv			
	SMF Batteries	Exide / Amaron			
	Offline UPS / Inverter	Microtek / Havells			
	Tubular Batteries	Exide / Amaron			
SR	SUMMARY				AMOUNT
A	TOTAL OF MAIN PANEL / DB's / MCCBs :-				-
B	TOTAL OF CABLES & TERMINATIONS				-
C	TOTAL OF POINT WIRING				0.00
D	TOTAL OF FIXTURES				-
E	TOTAL OF EARTHING SYSTEM				-
F	TOTAL OF TELEPHONE SYSTEM				-
G	TOTAL OF DATA CABLING SYSTEM				-
H	TOTAL Of Dismantling of old wiring etc				-
I	TOTAL Of Temporary arrangement Of Electrical Supply & Laisoning work Etc				-
	TOTAL FOR ELECTRICAL WORKS				-
	Amt. in words Rs. :				
SR.	ITEM	UNIT	QTY	RATE	AMOUNT
A	MAIN PANEL / DISTRIBUTION BOARDS / MCCBs :-				
1	Meter room Mains MCCB's				
	Supplying & Installing 63A, FP MCCB in Sheet Steel Enclosure, complete with Gland Box etc				
	a. 63 A FP MCCB 10kA	Nos.	1.00		-
	b. Sheet steel Enclosure Box for FP MCCB	Nos.	1.00		-
2	MCB DISTRIBUTION BOARDS				

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	SITC sheet metal fabricated & powder coated Double Door Type MCB Distribution Boards (surface/flush mounted). DB's shall have MCB/MCCB as incomer, RCCB as sub-incomer & SP/DP/TP MCB as outgoing, complete with Per Phase Isolation. All MCBs of C characteristics and 10 KA breaking capacity & ELCB's, RCCB's, RCBO's should be of 100mA sensitivity. The DB shall have appropriate no. of top & bottom knock outs for outgoing circuits & shall be complete with necessary bus bars, interconnecting terminals & earth studs. All terminations in DB shall be complete with feruling, dressing with lugs & all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of the Consultant.				
2.1	SITC Mains DB,				
	6 way VTPN - MCB DB,	Nos.	1.00		-
	63 A - 01 no. - FP MCB as incomer	Nos.	1.00		-
	25 A - 02 no. - TP MCB outgoing	Nos.	2.00		-
	32 A - 04 no. - TP MCB outgoing	Nos.	4.00		-
					-
2.2	SITC LIGHTING DB				
	4 way TPN - MCB DB,	Nos.	1.00		-
	25 A - 01 no. - FP RCCB as incomer	Nos.	1.00		-
	6A - 25A - 12 no. - SP MCB outgoing	Nos.	12.00		-
					-
2.3	SITC RAW POWER & AC DB				
	4 way TPN - MCB DB,	Nos.	1.00		-
	32 A - 01 no. - FP RCCB as incomer	Nos.	1.00		-
	20 A - 12 no. - SP MCB outgoing	Nos.	12.00		-
					-
2.4	SITC UPS DB				
	12 way SPN - MCB DB,	Nos.	1.00		-
	32 A - 01 no. - DP MCB as incomer	Nos.	1.00		-
	20A - 8 no. - SP MCB outgoing	Nos.	8.00		-
					-
2.5	SITC INVERTER DB				
	8 way SPN - MCB DB,	Nos.	1.00		-
	25 A - 01 no. - DP MCB as incomer	Nos.	1.00		-
	10A - 6 no. - SP MCB outgoing	Nos.	6.00		-
					-
2.6	SITC Entrance Master Control Switch (UPS,Light,Power & AC) DB				
	8 way SPN - MCB DB,	Nos.	1.00		-
	25 A - 01 no. - DP MCB as incomer	Nos.	4.00		-
					-
2.7	Supplying , Installing Testing & Commissioning of LED Indicator (Red Blue Green & Yellow colour) for showing the Power ON/ Off position in Branch Light / Raw Power (1) , AC (1) , UPS OUT Power Supply (1) , Invertor OUT Power Supply with 2.5 sqmm wire etc, complete.	Set	1.00		-
					-
3.0	UPS/inverter input / output DB's				
	a. SITC 4 way - MCB with Box, for UPS Input and For switching off the lighting DB near main gate to switch OFF all the light points after office hours				
	Sheet steel Enclosure Box for FP MCB	Nos.	2.00		-
	32/25 A - FP MCB :- 1 nos.	Nos.	2.00		-
					-

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
b.	SITC 2 way - MCB with Box, for UPS output				-
	Sheet steel Enclosure Box for DP MCB	Nos.	1.00		-
	32/25 A - DP MCB :- 1 nos.	Nos.	1.00		-
					-
c.	SITC 2 way - MCB with Box, for Inverter Input & Output				-
		Nos.	2.00		-
	25 A - DP MCB :- 1 nos.	Nos.	2.00		-
	Sheet steel Enclosure Box for DP MCB				-
3.2	Supplying & Installing 20 A Power Socket points complete MS concealed box, Modular Switch plate, 20A Modular Socket, controlled by a Modular 20 / 25A SP MCB with necessary screws, nylon plug, Saddles, hardware etc. <u>including cost of 2x4.0 sqmm + 1x2.5 sqmm</u> PVC insulated FRLS copper Wires and 25mm/20 mm PVC conduit, For High Wall/Cassete Split AC Units	Nos.	7.00		-
	A. TOTAL OF MAIN PANEL / DB's / MCCBs :-				-
B	CABLES & TERMINATIONS				
	Supply and Laying of following LT cables conforming to IS 1554 (part 1) with necessary M.S. clamps. All such cables shall be provided with temporary labeling at every 20 mtr. & then finally with metal identification tags showing the size & the location from/to the specific panel/DB; at both the ends. (The rates are inclusive of Termination of cables)				
1	Aluminium Armoured Cables				
a.	3 1/2 C x 35 Sq.mm Aluminium AYYF Armoured Cables, from MSEB Meter Mains to Mains Power DB	Rmt	40.00		-
2	Copper Flexible Cables				
a.	3C x 4 Sq.mm Copper Flexible Cables, from UPS Output to UPS DB Incoming MCB	Rmt	20.00		-
b.	4C x 6 Sq.mm Copper Flexible Cables, from Mains DB to Raw Power & AC DB Incoming MCB	Rmt	130.00		-
c.	4C x 4 Sq.mm Copper Flexible Cables, from Main DB to UPS Input MCB & Main DB to Lighting DB Incoming MCB and up to the main entrance door	Rmt	80.00		-
					-
d.	4C x 10 Sq.mm Copper Flexible Cables, from Main DB to UPS Input MCB & Main DB to Lighting DB Incoming MCB and up to the main entrance door	Rmt	50.00		-
					-
4	Flexible cables/ Wires				-
	Supplying & laying following size of 1.1 KV grade PVC insulated flexible copper cables through the Metalic Flexible Pipe neatly clamped where ever required using Spacer plates, GI saddles, including fixing with PVC / Brass glands and termination of cables using suitable crimp type tin copper lugs at both ends.				
a	4 C x 10 sq.mm. Cu flexible wires, for UPS Input MCB to UPS	Rmt	5.00		-
b	3 C x 6 sq.mm. Cu flexible wires, for UPS Output MCB to UPS	Rmt	5.00		-
c	3 C x 2.5 sq.mm. Cu flexible wire, for Signage & inverter	Rmt	150.00		-

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
d	Supplying and erecting programmable digital timer microcontroller based with real time clock to operate on derived switching "ON" and switching "OFF" glow sign board light as per daily sunset and sunrise respectively automatically having 4 digit LED continuous time display erected in M.S. box.	No.	1.00		-
					-
	B. TOTAL OF CABLES & TERMINATIONS				-
C	POINT WIRING				
1	POWER POINTS				
	SITC of following concealed Power Point Wiring using 1100V grade 3C x 2.5 sq.mm. PVC insulated, PVC Sheathed White Colored flexible copper FRLS cable, laid through 20mm / 25mm size MMS Grade, PVC conduits. All cabling / conduiting below false ceiling shall be concealed. Each circuit feeding not more than 3 Tables / Work Stations). The rate shall include cabling including conduit cost from DB to mentioned Power Points. (No seperate measurements for circuit wiring & PVC Conduits)				
a.	Primary UPS points	No	10.00		-
	Rate in words :-				-
	<u>(The main circuit will be considered as primary circuit and balance circuit to other tables will be used as secondary circuit)</u>				
	Supplying & Installing Primary UPS or Stabilized Power points on workstations / tables for computers using 3C x 2.5 Sq.mm PVC sheathed white color flexible copper FRLS cable pulled through 25mm size MMS Grade PVC conduites , laid on surface above false ceiling and taken upto table top using 25/20 mm size MMS Grade PVC rigid or flexible conduits run within wooden or metal partitions.				
	Each point consisting of 2 Nos of 6A, 5 Pin Modular sockets and 1 No. of 6/16A, 6 pin socket controlled by 1 No 20A Modular switch , wired together forming one point. Earth wire to be of Green colour only. Switch should be above table top & sockets should be below table top				
	Only 3 tables served by one circuit from UPS DB. The Rate should be including the cost of Conduits, Cables, Switch boards, internal looping wires, necessary Gang Box, PVC box, Modular Plates of other color, Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc. All Switch Boards should be Properly numbered for identifications.				
					-
b.	Secondary UPS points	No	5.00		-
	Rate in words :-				-
	<u>(The main circuit will be considered as primary circuit and balance circuit to other tables will be used as secondary circuit)</u>				
	Supplying & Installing Secondary UPS or Stabilized Power points on workstations / table for computers using 3C x 2.5 Sq.mm PVC sheathed white color flexible FRLS copper cable pulled through 25mm size MMS Grade PVC conduites, laid on surface above false ceiling and taken upto table top using 25/20 mm size MMS Grade PVC rigid or flexible conduits run within wooden or metal partitions.				
	Each point consisting of 2 Nos of 10A, 5 Pin Modular sockets and 1 No. of 6/16A, 6 pin socket controlled by 1 No 20A Modular switch , wired together forming one point. Earth wire to be of Green colour only. Switch should be above table top & sockets should be below table top				
					-

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	for 2 table served by the same circuit from adjacent Primary point. The Rate should be including cost of Cable, Switch board internal looping wires, necessary Gang Box, PVC box, Modular Plate of other color , Modular Switches, Sockets, Complete Job with necessary screws, nylon plug, Saddles, hardware. Etc. All Switch Boards should be Properly numbered for identifications.				
					-
	c. Primary 10/20 A power points, for Printers / Pantry / Hot Plate /	No	4.00		-
	Supplying & Installing Primary 10/20 A Power Socket points using 2 X 4.0 Sq.mm. + 1 X 1.0 Sq.mm. PVC insulated multistandard FRLS Grade flexible copper wires (with proper color code) pulled through haevy gauge PVC conduits.				
	Each point consisting of 1 Nos of 10/20 A Modular sockets controlled by 1 Nos of 20A Modular switch , wired together forming a point. Earth wire to be of Green colour only.				
	Only 2 Sockets served by one circuit taken from Raw Power & ACDB				
					-
2	LIGHT POINT WIRING				-
	SITC of following concealed point wiring using 1100V grade 3C x 1.5 sq.mm. copper conductor PVC insulated FRLS wires (with proper R,Y,B colour code) pulled through 25mm / 20mm Size, MMS Grade PVC conduits. All wiring below false ceiling shall be concealed. The wires from ceiling junction to light points shall be drawn in flexible PVC conduit with adaptor & cover for junction box & crimp type lugs at both ends. Each circuit feeding not more than average 12 points (800 watts). The rate shall include circuit wiring (2C x 2.5 sq.mm. + 1C x 1.0 sq.mm.) from Lighting DB to switchboard and to the fixtures. (No seperate measurements for circuit wiring & PVC Conduits)				
	a. Primary Light points	No	50.00		-
	Rate in words :-				-
	SITC 5A Primary light points including MS concealed box, grid plate, 6A switch & circuit wiring.				
					-
	b. Secondary Light points	No	5.00		-
	Rate in words :-				-
	SITC 5A Secondary light points looped from primary light point. All MCB controlled light points will be considered as secondary light points.				
					-
	c. Primary 5 A socket points	No	15.00		-
					-
	SITC Primary 5 A Socket points using circuit wiring (with proper color code) pulled through medium gauge PVC conduits.				
	Each point consisting of 1 Nos of 5 A sockets controlled by 1 Nos of 6A switch , wired together forming a point with Green colour Earth wire.				
					-
	d. Secondary / Separate 5 A socket points (other than on Board plug points)	No	3.00		-
					-
	SITC Separate Secondary 5 A Socket points using circuit wiring (with proper color code) pulled through medium gauge PVC conduits. These points should be looped from the nearest Lighting Switch Board or from Primary 5A Socket Points.				
	Each point consisting of 1 Nos of 5 A sockets controlled by 1 Nos of 6A switch , wired together forming a point with Green colour Earth wire.				

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
					-

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	f. Exhaust fan/Wall Fan points	No	7.00		-
	SITC of concealed point wiring for Exhaust fan and Wall fan using 1100V grade 3C x 1.5 sq.mm. copper conductor PVC insulated FRLS wires (with proper R,Y,B colour code) pulled through 25mm / 20mm Size, MMS Grade PVC conduits. All wiring below false ceiling shall be concealed. The wires from ceiling junction to fan points shall be drawn in flexible PVC conduit with adaptor & cover for junction box & crimp type lugs at both ends. The rate shall include circuit wiring (2C x 2.5 sq.mm. + 1C x 1.0 sq.mm.) from Lighting DB to switchboard and to the Exhaust fan and Wall fan. (No separate measurements for circuit wiring & PVC Conduits)				
	Each Exhaust Fan and wall fan will be operated on separate switch, Rate should be including the cost of 5 A switch, 4 way closed 5A connector & Mounting Plates				
	g. Ceiling fan points	No	7.00		-
	Rate in words :-				-
	SITC Ceiling Fan point operated on separate switch shall be Controlled by 2 Module, Step type Fan regulator, Rate should be including the cost of Fan hook, Suspending suitable fan rod, Connecting cord and Step type Fan Regulator				
					-
	h. Bell points	No	2.00		-
	SITC Bell point consisting of 5A Modular Bell switch & Suitable Bell, (<i>Bell switch to be installed in Manager Cabin and in Strong room. The Sound of both the bells should be different</i>)				
	C. TOTAL OF POINT WIRING				-
D	FIXTURES				
	SITC of following concealed / surface mounted fixtures of makes as specified with all fixture accessories like suitable tubes/ bulbs/ ballast & internal wiring etc. The contractor has to assemble & install the said fixtures at position with necessary hardware required for installation like S-hook, chain link etc. as per requirement.				
					-
1	LED tube lights 4'	No	13.00		-
	SITC 1200 mm Long Surface/Wall Mounted extruded Aluminium channels, with 20 w LED Tube light fixtures complete. Rate should be including the cost of Fixture, Suspending suitable rods, other accessories & hardware etc.				
	Model : BN021 LED25S 6500 PSU GR S1,				-
	Make : Crompton Model : Linea LDLL20-CDL, LDLL20-WW				-
	Make : Wipro, Model : Garnet D532065, D552065				-
	Make : Havells Model : E-Lite LED Pride Pus LHEXBLP7PN1W020				-
					-
2	LED tube lights 2'	No	4.00		-
	Rate in words :-				-
	SITC 600 mm Long Surface/Wall Mounted extruded Aluminium channels, with 10 w LED Tube light fixtures complete. Rate should be including the cost of Fixture, Suspending suitable rods, other accessories & hardware etc.				
					-
3	15 w Down lighter with LED	No	19.00		-
	Rate in words :-				-
	SITC 15 w White Powder Coated Housing LED Round / Square Down Lighter with High Efficiency LEDs & Ballasts				
	Make : Philips, Model : DN193B LED12S-6500 PSU WH S1				
	Make : Crompton, Model : Star Dura LSDRSD-18W-CDL/ NW/ WW,				
	Make : Wipro, Model : Garnet Wave D541565, Infinity Wave DG11565, DG12065				

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	Make : Havells, Model : Fazer Neo LHEBMCP7IW1W015, LHEBMCP7IW1W020				-
4	600 x 600 mm square LED panel fittings	No	7.00		-
	Rate in words : -				-
	SITC 36 / 40 w LED Panel of 600mm X 600mm size, Square, Powder coated Recess mounting LED Light Fitting				
	Make: Philips, Model: RC380B G2 LED28S / RC140B G2 LED31S-6500 PSE OD WH				
	Make: Crompton, Model : LCTLR-36-CDL 36 w, LCPL-36-TL(2X2)				
	Make: Wipro, Model : Gartnet D424065, D414065 CRCO10R038HP57				
	Make : Havells, Model : Venus Neo PLR36WLED865PO, Plano				-
					-
5	Fans				-
	Supplying & Installing following mentioned Aluminum, medium duty, powder coated with glossy color Ceiling Fans / Wall Fans / Exhaust Fans with necessary clamps hook, bracket, hardware etc				
					-
	a. SITC 1200 mm sweep Ceiling fans Complete with Mounting rod, Clamps, Locking pin etc. (Color -White / Ivory / Brown)	No	7.00		-
					-
	b. SITC 250mm sweep Exhaust fan of metal body & blade with louvers on the outside	No	3.00		-
					-
	c. SITC 400mm sweep Wall fan of 1350 RPM. Oscillating type, metal blades chrome plated guard with speed regulator and moisture proof treatment to winding and with 'E' class insulation.	No	7.00		-
					-
	D. TOTAL OF FIXTURES				-
E	EARTHING SYSTEM				
1	Plate Earthing				
	S & I of Earthing Pit / Earth Electrode Station into the true ground level by using GI / Copper Plate type earthing with necessary excavation in soft soil, including Pouring Charcoal & Salt (Approximately) 50kg each per Pit with Predrilled 50mm dia B class GI Pipe-2.5 Mtr In length, GI Funnel with wiremesh, 35 x 5mm GI/Cu Earthing Strip, Complete job with necessary construction of appropriate sized Earthing PIT masonry Chamber with providing CI hinged chamber cover, Nutbolts, Earthing Testing Link, Hardware, Numbering of Chamber by using water proof paint. For more details refer IS 3043-1987 Brazing for Cu & Welding for GI Plate to pipe & Strip shall be done with coating by anti-corrosive paint				
	A CU Plate earthing.	No	3.00		-
					-
	Copper earthing pit made up of 600 x 600 x 3 mm thick, copper electrode including 25 x 5 mm Copper strip.				
					-
2	Earthing Wires				-
	SITC of insulated copper earthing wire laid through 20 mm PVC conduits from separately made earth pit to the equipment in following sizes				
	A Single core, 6 sqmm FRLS PVC insulated multi threaded, flexible copper cable laid through 20 mm size, MMS Grade PVC Conduites	Rmt	90.00		-

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
3	Main Earth Bus	No	2.00		-
	Supplying & Installing of Main bus for isolated earth comprising of 200mm x 40mm x 6mm thick copper bar fixed on insulated support and having 20 nos of holes and nut bolts studs for clamping the earth leads,all contained in MS/PVCbox of size 300mm x 200mm x 50mm deep and having transparent acrylic inspection cover as approved by Bank / Architect.				-
					-
	E. TOTAL OF EARTHING SYSTEM				-
F.	TELEPHONE / VOICE CABLING AND OUTLETS				
1	Telephone points	No	1.00		-
	Rate in words :-				-
	Providing and laying 2 Pair Grey Color 0.5mm Tinned Cu , PVC insulated cable for Telephone / Voice, laid through 20 / 25 mm size, MMS Grade PVC Conduites and Supplying & terminating with RJ-11 Telephone Jack / Outlet with face plates in suitable modular PVC / MS box from EPABX / Krone Tag Box to the work stations and terminate the other on a 10 pair Krone module installed in a Krone Tag box, complete with numbering of each cable with Ferule and Telephone Connection Chart (No seperate measurements for PVC Conduits)				-
					-
	F. TOTAL OF TELEPHONE SYSTEM				-
G	DATA CABLING SYSTEM				
1	Data points	No	10.00		-
	Rate in words :-				-
	Supplying and laying D-Link / Molex / Awaya / Amps make, Cat 6 cable for Data, laid through 20/25 mm size, MMS Grade PVC conduites and providing & terminating with RJ-45 Information Outlet Ports with face plates in suitable modular PVC / MS box from Server Rack/ Patch Panel/ Data Switch to individual work stations & terminating other end with RJ-45 connector including numbering with ferule (No seperate measurements for PVC Conduits)				-
					-
2	Supplying & laying Cat-6, RJ-45, 1 m. length Data Patch Cords,	No	11.00		-
	Make : D-Link / Molex / Awaya				-
	Rate in words :-				-
					-
3	Supplying & laying Cat-6, RJ-45, 2 met length Data Patch Cords,	No	10.00		-
	Make : D-Link / Molex / Awaya				-
	Rate in words :-				-
					-
4	Patch panel				-
					-
a	Supplying and Installing D-Link make, preloaded, Cat-6, RJ-45, 24	No	1.00		-
					-
5	Supplying & Installing D-Link / HCL / iBall make 12-U Networking	No	1.00		-
	* 2U Horizontal Cable Manager				
	* Power Distribution Unit / Power Strip of 6 Sockets				
	* Cooling Fans				
	* Cantilever Trays / Shelves				-
	* Hardware Packet				-
					-
	G. TOTAL OF DATA CABLING SYSTEM				-

SR.	ITEM	UNIT	QTY	RATE	AMOUNT
H	Dismantling of old wiring,Data ,telephone, Fitting fixtures & DB's Etc and disposing away from the site.	Job	1.00		-
	H . TOTAL Of Dismentlling of old wiring etc				-
	Temperory Lightning supply & data connectivity				
I	Arranging temporary Power, data supply & Lighting for all agencies and for staff PCs at work place . The rate shall include statutory aproval from Local MSEDCL / Electrical Inspectorate & other required satatutory bodies, preparation of AS-BUILT drawings, Testing of the installation & preparation of test report as required by statutory bodies. Note: The rate to include cost of suitable temporary Lighting for all areas as per requirement during work.	Job	1.00		-
	I. TOTAL Of Temporary arrangment Of Electrical Supply &				-
	TOTAL FOR ELECTRICAL WORKS				-
	Discount, if any				
	Total Amount				
	Less Buy Back				
	The Lightning fixtures, Fans and other unused electrical fittings under Buy back. The minimum reserve price is Rs. 5,000/- + applicble GST.	LS	-1		-
	Net Amount				
	(Amount in Words in Rs.)				