



**TENDER FOR ELECTRICAL, VOICE & DATA CABLING WORKS OF UCO BANK
SATELLITE BRANCH & ATM (UNDER AHMEDABAD ZONAL OFFICE)**

PART 2 (B.O.Q. / PRICE BID / FINANCIAL BID / COMMERCIAL BID)

ISSUE TO (NAME OF CONTRACTOR)	
ADDRESS	
CLIENT	<p>DEPUTY GENERAL MANAGER UCO BANK, ZONAL OFFICE - AHMEDABAD, GAD DEPARTMENT , 7TH FLOOR, UCO BHAVAN, NR. SANYAS ASHRAM, ASHRAM ROAD, AHMEDABAD - 380009</p>
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**FINANCIAL BID FOR ELECTRICAL, VOICE & DATA CABLING WORKS OF UCO BANK
SATELLITE BRANCH & ATM (UNDER AHMEDABAD ZONAL OFFICE)**

SR. NO.	PARTICULARS	TOTAL AMOUNT IN (RS.)
1	TOTAL AMOUNT OF ELECTRICAL, VOICE & DATA CABLING WORKS <u>EXCLUDING G.S.T.</u>	
	IN WORDS :-	
2	TOTAL AMOUNT OF ELECTRICAL, VOICE & DATA CABLING WORKS <u>INCLUDING G.S.T.</u>	
	IN WORDS :-	

SIGN & STAMP OF AUTHORIZED PERSON OF CONTRACTOR FIRM

BOQ FOR ELECTRICAL, VOICE & DATA CABLING WORKS OF UCO BANK SATELLITE BRANCH & ATM (UNDER AHMEDABAD ZONAL OFFICE)					
SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
A	INTERNAL WIRING :				
1	<p>P and M point wiring in concealed in walls, furniture's & for above false Wiring of points to be done in open/concealed manner in 25 mm dia medium guage Rigid PVC pipe. Supply installation testing and commissioning INTERNAL WIRING using FIA & BIS approved make Wiring shall be done with FRLS type flexible wire of 650V/1100V. Separate pipe should be taken for circuit mains. Nos of circuit of the same phases may be taken in same conduit as per specification. The circuit shall be laid in 38/40 mm dia medium guage rigid PVC pipe. The point rate shall include all the necessary piping and wiring from sub panel / Distribution board to switch board & switch board to the batten holder / angle holder / connector / ceiling rose all inclusive except sub panel / Dist board. The wiring shall be done as per IS standard. The looping of the wiring should be done in the switch boxes or light and fan point outlet boxes to avoid the junction boxes. The junction boxes and switch boxes for the ceiling light point, fan point, plug point etc shall be minimum 60/75 deep. All the necessary jarry should be done with machine cutter only , also jarry should be filled with cement, sand and wire mesh as required, the material cost for rough finish shall be included in point rate. Whenever pipes are required to be laid in flooring for lighting the same shall be of heavy guage. Wiring should be done as per distribution details. Each circuit should have dedicated phase, neutral & earth wire. Wire sizes to be used as under</p> <p>For Light Points /fan point/ wall fan / 5A 3 Pin Plug</p> <p>- DB to SB - 2.5sqmm for Phase & Neutral & 1.5 sqmm for Earth</p> <p>- SB to Point - 1.5 sqmm for Phase & Neutral & Earth For 6A plug point</p> <p>- 1.5 sqmm for Phase, Neutral & Earth</p> <p>For 6/16A general purpose plug point</p>				
1.1	One 5A switch controlling ONE light/fan point	20	nos		
1.2	One 5A switch controlling TWO light/fan point	10	nos		
1.3	5A socket outlet with 5A switch (on common board)	10	nos		
1.4	5A socket outlet with 5A SP switch (as an independent point) for wall fan	12	nos		
1.5	Call bell point with bell push complete in all respect.	1	nos		

SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
2	SITC of 16 Amp. Switch and socket complete with necessary require wiring from PDB of 2 no of 4.0 sqmm wires and 1 no of 2.5 sqmm PVC Insulated copper conductor wire laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark. These will be used with point wiring of power points ,etc.	5	nos		
3	SITC of 20 A/ 25 A , 230 V, with DP MCB all enclosed in a prefabricated P.V.C. boxes complete to the satisfaction of E.I.C. For SPLIT AC 1.5TR / 2.0 TR unit with necessary require wiring from ACDB of 2 no of 4.0 sqmm wires and 1 no of 2.5 sqmm PVC Insulated copper conductor wire laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark. These will be used with point wiring of A.C. points ,etc . [This point should be installed near Split / window AC in concealed manner.] The height of switchboard must be at reachable point to easily operate.	7	nos		
B	LIGHTING FIXTURES :				
	(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULANTS BEFOTE ORDERING THEM.				
4	Supply, installation, testing and commissioning (including supply and fixing flexible wires from holder to fixtures hardwares etc.) of.... - <u>The PL / CFL lamps (Conceald L.E.D) should be of same make as fixture make. - The marking & cutting of fixtures should be in ele. contractor's scope..</u>				
4.1	36W / 39W square sleem panel L.E.D fixture - with all fiting and making earthing conection complete to be recessed in false ceiling with all necessary hardwares, chains, hook etc. complete. (Philips / Wipro Make)	10	nos		
4.2	15W / 18W square panel L.E.D fixture - with all fiting and making earthing conection complete to be recessed in false ceiling with all necessary hardwares, chains, hook etc. complete. (Philips / Wipro make)	15	nos		
4.3	Supplying and providing LED Strip Rop Light with LED electronics transformer etc complete as per instruction		R.Mt.		
4.4	Supply and insallation of Call bell with Indicatore. (Max or equivalent make)	1	nos		
4.5	Supply and installation of Exhaust fan of 300 mm, fresh air vantilation type with louvers complete & 6 Amp. 3 pin TOP. (Orient /Bajaj / Khaitan / Luminous make) [Wooden mounting frame should be fixed in coordination with carpenter - furniture contractor.]	3	nos		
4.6	Supply and installation of 48" Ceiling Fan with cover, step modular regulator, M.S. Pipe, Anchor Fastner, etc. The positioning of all these fans are as per electrical layout.	2	nos		
4.7	1x28 W LED Patti type tube light fixture with electronic with necessary hardwares, etc.(PHILIPS TARANG MINOLTA make)	4	nos		

SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
4.8	1x7 W LED Patti type tube light fixture with electronic with necessary hardwares, etc.(PHILIPS TARANG MINOLTA make)	3	nos		
4.9	Supply and installation of 450 mm sweep high speed wall mounted fan (Orient / Khaitan / Havells / Luminous make-.white colour).	8	nos.		
C	COMPUTER POWER SUPPLY & NETWORK - TELE. SYSTEM.:				
5	SITC of 2 nos. of 6 A, 5 pin Sockets and 1 no. of 6 \ 16 A socket below table outlets with one 16 A switch with indicator Computer power supply with concealed company made metallic boxes or PVC flush box on walls / furniture's / trunking etc complete all respect with necessary wiring of mains of 2 no of 2.5 sq mm and 1 no of 1.5 sqmm pvc insulated copper conductor multi-stranded flexible wire with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. complete from UPSDB to Computer power supply boards. (Maxi. 3 computers in one circuit). complete with necessary termination etc. complete.[White Colour Outer Plate For These Switchboards]. LOOP POINTS MUST BE OF SAME SIZED WIRES. (this cost includes the wiring from DB to Computer point.)	15	nos		
6	S & I of 2 nos. of 6 A, 5 pin Sockets and 1 no. of with one 6 A switches row power supply with concealed company made metallic boxes or PVC flush box on walls / furniture's / trunking etc complete all respect with necessary wiring of mains of 2 no of 2.5 sq mm and 1 no of 1.5 sqmm pvc insulated copper conductor multi-stranded flexible wire with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. complete from PDB to Computer power supply boards.(Maxi. 3 Raw Power Points in one circuit). complete with necessary termination etc. complete.. [Black Colour Outer Plate For These Switchboards]. LOOP POINTS MUST BE OF SAME SIZED WIRES.(this cost includes the wiring from DB to point.)	10	nos		
7	Providing, installing, testing, commissioning of CAT 6 UTP pvc insulated copper conductor data cable of D - Link with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. with ferrule numbering at both ends of each piece of cable complete. [2 Lines from BSNL Krone to new krone & 2 Lines from BSNL Krone to DATA RACK].	180	mtr		

SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
8	Supply, installation, testing and commissioning of CAT 6, RJ 45 information outlet (I/O) of D-link make with front modular cover plate, flush box metallic or PVC for trucking system etc. complete with terminations etc. complete with Providing, installing, testing, commissioning of CAT 6 UTP pvc insulated copper conductor data cable of D-link make with 20/25 dia. PVC conduits with accessories duly buried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. with ferrule numbering at both ends of each of piece of cable etc. complete as per the requirement from metal rack to table I / O points complete. (one for LCD & one for IP tele. in BM CABIN.) The unit rate considered on running meter basis includes laying, connection, testing and commissioning of multipair data cables through rigid PVC conduit from server to each floor / of specific area. The cable shall be installed in a concealed manner in the vertical riser including fixing & Supply & laying of 25 mm dia. rigid PVC conduit of medium gauge. Data Outlet Point Supplying installing, testing and commissioning of data outlet point to be done with the data wire from hubrack to individual point in pipe & with data outlet socket RJ-45 (jack type) and box. (Wire & Socket of Avaya Lucent Make)	22	nos		
9	Supply, installation, testing and commissioning of 9 U metal rack for computer clamping switch etc. complete with Tray Mounting Fan + power supply board. Bank's hardware - port switch / patch panel must be installed by ele. Contractor in this rack.	1	nos		
10	SITC of 24-port ethernet switch	1	nos		
11	SITC of 48 port patch panel for computers mounting in metal rack.	1	nos		
12	Supply & fixing the Patch cord 1 mtr. Long (factory built) - When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	14	nos		
13	Supply & fixing the Patch cord 2 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	10	nos		
14	Supply and installing telephone point with Telephone socket outlets of RJ 11 of approved make with company made concealed boxes in walls / furniture's etc. complete with Providing, installing, testing, commissioning of 2 pair of 0.51 cross section pvc insulated copper conductor telephone wire of ITI approved with 20/25 dia. PVC conduits with accessories duly buried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. complete. from kroone box to table tele. points, etc. complete. for Intercom / fax / direct Tele. facility.	6	nos		
15	Supply, installation, testing and commissioning of 10 pair krone telephone tag block duly enclosed in sheet metal powder coated box with locking arrangement complete with necessary terminations	1	nos		

SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
D	DISTRIBUTION PANELS :				
16	Supply, installation, testing and commissioning of Main panels as per drawing and specifications. Panel should be dust and vermin proof. Panel shall be fabricated from 14/ 16 SWG CRCA sheet metal duly powder coated of approved paints.				
16.1	MAIN PANEL :	1	nos		
	<u>* Incoming feeder :</u>				
	160 A C&S Make CSE1N100ETM4P-160A or L& T MAKE; CM9215300000AG-160A or LEGRAND MAKE: DPX3-160A:4201 15-160A (1 No.). The MCCB should have inbuilt Earth Fault & Neutral Overload Protection with Power Supply & Display Module for Metering & Fault Recording.				
	125 A FP SFU (1 No.) as Incoming				
	* 100 A, FP Change over switch (1 No.)				
	* 200 AMP. 500 Volts, 3 phase 50 Hz FP Copper bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A				
	* Ammeter and Voltmeter with selector switches, control fuses. - digital type meter C.T. shall be of 15VA class 1 type and shall be resin cast type				
	* Phase indicator lamps LED phase wise.				
	<u>* Outgoing feeder:</u>				
	* Timer of L & T make Cat. No. 67DDTO digicom Timer with 16A. 4P contactor / Theben make Cat no. SUL 180 a - T180 0 001 ANALOG Timer with L & T make contactor MNX 18 (operating coil voltage 230V, 50 Hz). (24 hrs).- 1 No for signage light				
	* 25 A DP MCBS (1 no - Sign board)				
	* 63 A FP MCB (1 NO - ACDB - PDB)				
	* 63 A FP MCB (1 NO - POWER -DB)				
	* 63 A FP MCB (1 NO - LIGHTING -DB)				
	* 63 A FP MCB (1 NO - UPSDB)				
	* 40 A FP MCB (1 NO - ATM / E-LOBBY DB)				
	* 40 A FP MCB (1 NO - SPARE MCB)				
16.2	incoming : 63 A FP MCB - 1 NO.	1	Nos		
	outgoing : 25 A DP ELCB, 100 mA - 3 NO .				
	outgoing : 6 to 20 A SP MCB (9 nos).				

SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
16.3	4 - WAY TPN DB : (PDB). All MCB should be ' C ' type.	1	Nos		
	incoming : 63 A FP ELCB, 100 mA. - 1 NO .				
	outgoing : 16 A SP MCB (12 nos).				
	for Row Power and 16AMP plug point printer				
16.4	6 - WAY TPN DB : (ACDB). All MCB should be ' C ' type.	1	Nos		
	incoming : 63 A FP MCB - 1 NO .				
	outgoing : 20 A / 25 A DP MCB (9 nos) for HI- WALL SPLIT AC / CASSETTE AC points.				

SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
16.5	4 WAY SPN DB : (UPS DB) OUTPUT. - for atm / E Lobby) Area.	1	Nos		
	incoming : 25 A DP 100 mA ELCB.				
	outgoing : 6 to 10 A SP MCB (2 nos).				
16.6	Supply and installation of 24 Hr., 7 days A.C. timer with 2 nos power conector of M.D.S, L & T, SEIMENS , THEBEN (indoasian) Make. All enclosed in sheet steel powder coated enclosure complete with all necessary termination for system room A.C. with use of end connectors, push button switches, LED indicators for two ACs. (To be provide in E - Lobby AC)	2	nos		
17	Providing and Installing of 125A MCCB FP Unit compartment with hinged door & locking arrangement duly fabricated from 18 SWG sheet metal box duly painted with one coat of red-oxide paint and two coats of approved enamel paints with 125A OPEN TYPE MCCB FP UNIT with Phase indicator lamps phase wise , control fuses & wooden back complete. THIS WILL BE INSTALLED NEAR MAIN DOOR - INSIDE OR OUTSIDE - OF THE BANK. (first ask to Consultant / Bank Authority.)	1	nos		
18	Supply and Installation of Main Electric Panel for ATM / E-Lobby		No		
	Incoming 100A 4Pole MCCB Cu Busbar,KHW metering & Indicator Lamp Outgoing 40A 4 Pole RCCB 100 mA sentivity - 1 No. For A.C 25A SP MCB G - 3 Nos For A.C Timer with 2 Nos Contactors MNX9- 1 SET for alternate running of two A/C- 2 Nos				
18.1	UPS Input and Output SPN MCB DB Double Door for E-Lobby	1	No		
	Incoming 63A 4 Pole MCB Type Change over- 1 No Outgoing 32A DP MCB-1 No				
E	EARTHING SYSTEM:	2	No		

SR. NO	PARTICULARS	QTY.	UNIT	RATE IN RS.	AMOUNT IN RS.
	<p>Earthing Stations :</p> <p>(A) Providing earthing stations for equipment earthing as specified and shown in IS:3043 with copper plate of mentioned size complete with :</p> <p>a Excavation in hard soil.</p> <p>b Watering of pit</p> <p>c Brick masonry with hinged covers.</p> <p>d Charcoal and Salt fill.</p> <p>e 25mm x 3mm Cu. Strip up to Ground level</p> <p>f The minimum depth should be 3.5 MT or till the wet soil is reached.</p> <p>(B) Earth wire/ strips:</p> <p>Supply and laying cu. earthing strips for interconnecting the earthing stations, panels, DB's etc. in built-up trenches, on walls/ceiling, buried in ground generally as specified and shown on drawings complete.</p> <p>with :</p> <p>a Fixing accessories.</p> <p>b) Corrosion protection of buried conductors with bituminous coating and covered with PVC tapes.</p> <p>c 25 x 3 mm cu. strips.</p> <p>d 8 Gauge bare cu earth wire.</p> <p>e 40mm x 6 mm earth link fixed by necessary screws on wall.</p>				
F	CABLES & CABLE TERMINATIONS:				
19	Supply, Lying, installation, testing and commissioning of following sizes of PVC insulated PVC sheathed copper / aluminum conductor armoured cable to be laying in existing cable trench or to be laid in existing pipes of with necessary clamps, spacers with cleating on wall ceiling etc. complete to the satisfaction of EIC. All types of cable excavation works should be in contractor's scope.(LENGTH TO BE VERIFY AT SITE)				
21.1	4 C x 2.5 sq. mm Cu . Conductor YWY cable. (for Signboard)	8	Mtr		
21.2	4 C x 6 sq. mm Cu. Conductor YWY cable. (Main Panel to UPS DB).	18	Mtr		
21.3	4 C x 16.0 sq mm Alu. Conductor AYFY cable. (Main Panel to LDB, PDB, ATM / E-Lobby DB.) . (LDB-10 + PDB-15 + ATM / E-Lobby Panel- 20)	12	Mtr		
21.4	4 C x 25 sq mm Alu. Conductor AYFY cable. (Main Panel to ACDB)	3	Mtr		
21.5	3.5 C x 50 sq. mm Alu. Conductor AYFY cable. (main cable from Panel to main mccb nr. energy meter) (LENGTH as per site condition)	35	Mtr		
21.6	25.0 sq. mm single core Cu. wire supply & laying for main load wire from meter to main switch in flexible pipe.	5	Mtr		

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21.7	3 C X 6.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (UPS O/P DB in UPS ROOM to UPS O/P DB in).	5	Mtr		
21.8	4 C X 6.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (From UPS ROOM to E-Lobby O/P DB).	5	Mtr		
22	Providing, supplying & installation of switch board cover made out of durable 16 Gauge Aluminum material with Powder Coated finish & having locking arrangement system with minimum 3 set of keys in E-Lobby / ATM	2	Nos		
A	<u>TOTAL AMOUNT OF ELECTRICAL,VOICE & DATA CABLING WORKS EXCLUDING G.S.T.</u>				
B	ADD C.G.S.T. @ 9 % ON TOTAL AMOUNT				
C	ADD S.G.S.T. @ 9 % ON TOTAL AMOUNT				
D	TOTAL G.S.T. (B+C)				
E	TOTAL AMOUNT OF ELECTRICAL, VOICE & DATA CABLING WORKS INCLUDING G.S.T. (IN Rs.) (A+D)				