

DETAILED BILL OF QUANTITIES : UCO BANK AURANGABAD BRANCH - LUCKNOW.						
ELECTRICAL, AIRCONDITIONING & DATA NETWORKING ITEM						
S No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (RS.)	AMOUNT (IN WORDS.)
	TECHNICAL SPECIFICATION FOR ELECTRICAL WORK					
	Supply, Installation, Testing & Commissioning (S.I.T.C.) Of All Items described below should be Factory Manufactured & Tested & ISI marked. Proposed location & route should be as per the drawing. However , if any obstruction is encountered at site suitable modification may be made as per site condition. After completion of work the contractor must supply 3 copies of "As-Built" drawing of actual route & location of items . All UPS & Raw Power points to be Marked as U1,U2,----- & R.P.1, R.P.2 – etc on each work-Station/Desk etc. Similarly load/points connected on Each M.C.B. to be indicated with a chart pasted inside the cover of each Distribution Board. Insulation testing of Wiring with Meggar & Testing of E.L.C.B. with Test lamp should be carried out before charging system & Insulation test report as well as RCCB/RCBO test report to be submitted with the Bill. LOAD should be equally BALANCED on 3 PHASES. All D.B.'s and UPS + Raw power Points should have an earth wire Connection in their socket earth termins.					
2	Distribution System S.I.T.C. of Factory ManufacturedSingle/ 3 Phase & Neutral Double Door Distribution board made out of 16 SWG sheet steel enclosure with cutouts for operating MCB/MCCB/RCCB etc. knobs & consisting of Phase, Neutral & Earth Bus bars 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. . All wires/Cables should be terminated with Ring/PIN Type copper Lugs in Each MCB in D.B. as well as in each Of NEUTRAL & EARTH Link Strips.					
	S.I.T.C. of 3 phase 6 Way Double Door Vertical Distribution Board with following M.C.B./M.C.C.B./RCCB & cable end boxes at Input & Output.	4.00	No			
3	S.I.T.C. of L.D.B. 1 S.I.T.C. of Single Phase 12 way Single door D.B. with Double pole 30 Milliamp -40 Amp R.C.C.B. as Incomer -1 No, 6 Amp S.P. Amp M.C.B. 10 Nos with all wiring connections. 6 Amp Spare MCB-Nil .Blanking Plates - Nil.	2.00	No			
5	Sub- Mains Cabling & Wiring : For Lighting, Raw Power, & U.P.S. D.B.'s. S.I.T.C. of I.S.I. marked 1.1 KVA grade multi-strand F.R.L.S. Copper P.V.C. wires in 19/25/32 mm Medium grade I.S.I. marked PVC pipes to be laid in Underground trench/On wall/above false ceiling etc complete with all conduit accessories like bends, tees, Junction boxes with necessary fixing hardware etc. including re-surfacing of the floor/wall etc. wherever necessary with Resurfacing material.					
a	S.I.T.C. of bunch of 4 X35 Sq.mm Armoured Aluminium XLPE cable. From Change over to Genset, connection with check nuts etc. D.B. body to be earthed with double earth . Exact length to be measured before procurement. 2 Nos of 16 sq.mm copper Earth wire to laid with main cable .	8.00	Rmt			
b	End termination of above cable with suitable Copper Lugs on both side of cable. (Pin type)	2.00	Set			
c	S.I.T.C. of bunch of 4 X 25 Sq.mm Armoured Aluminium XLPE cable. From bus bar distribution board with check nuts etc. D.B. body to be earthed with double earth . Exact length to be measured before procurement. 2 Nos of 16 sq.mm copper Earth wire to laid with main cable_.	20.00	Rmt			
d	End termination of above cable with suitable Copper Lugs on both side of cable. (Pin type)	2.00	Set			
g	S.I.T.C. of Bunch of 5X 6 Sq.mm. F.R.L.S. Copper Flexible wires in 32 mm PVC conduit from busbar to ATM TPN DB. Input MCB Box. (body to be earthed.)	15.00	Mtr			
h	End termination of above wires at both ends in D.B.s with Pin type copper lugs.	4.00	Set			
i	S.I.T.C. of 3X 2.5 Sq.mm. F.R.L.S. copper flexible wires in 19/20 mm. Medium Gauge PVC conduit from MainD.B. to power point.	150.00	Mtr			
j	End Termination for above wires (both Ends) with Pin type of copper Lugs in Main D.B. / Inverter O.P. MCB boxes L.D.B's / Pantry MCB Box etc.	4.00	Set			
m	SITC of UPS wiring 2X1.5 sqmm + 1x 1.5 sqmm earth, FRLC copper wire in rigid PVC conduit from inverter output to points.(Emergency light)	150.00	Rmt			

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n	SITC of wiring for indoor unit to outdoor unit 2X2.5 sqmm + 1x 1.5 sqmm earth, FRLC copper wire in rigid PVC conduit.	75.00	Rmt		
3	Light Point/Raw Power Point/UPS Point/Fan Point wirings S.I.T.C. of I.S.I. marked 1.1 KV grade multi-strand F.R.L.S. Copper P.V.C. wires in 19/25 mm Medium grade I.S.I. marked PVC pipes to be laid in Underground trench/On wall/above false ceiling/Through Modular Furniture slots etc complete with all conduit accessories like bends, tees, Junction boxes with necessary fixing hardware etc. including re-surfacing of the floor/wall etc. wherever necessary with Resurfacing material. Point wiring for Lights, fans, exhaust fans, 6Amps dependant socket outlets etc. using S.& I. of 3X 1.5 Sq.mm. Flexible copper FRLS multi-strand PVC copper wires in PVC conduits as described above for all the following points. Point wiring to include cost of wiring in PVC conduits & switch, sockets, boxes, plates & fixing accessories.				
a	Single Light points controlled by 6 Amp switch.	37.00	No		
b	Two Light points controlled by one 6 Amp Switch.	18.00	No		
c	Three Light Points controlled by one 6 Amp Switch	1.00	No		
d	Dependant 6 Amp s 3/5 Pin combination type Universal socket with indicator mounted on switch-box. (except toilets& passages	16.00	No		
e	Fan/Exhaust Fan Points	12.00	No		
f	S.I.T.C. of Light point with Timer for Sign-board.	1.00	No		
4	Raw & UPS Points				
a	S.I.T.C. Of 3 Nos of 6Amp Universal Sockets controlled by one 16 Amp Indicator switch housed in a Modular PVC switch Box (Work Stn+ 2 each in server & training rooms etc)with Recessed surface plate for UPS Switch pts on Work-Stns. (3No sockets in box with surface plate will be below table. Only 16 Amp Control switch for these points with Recessed Surface Plate will Be above table. All wires to be drawn through cable/wire channel inside work-station. No surface conduit/casing to be sen below work-station. Conduit junction boxes should be below work-Station table & not below chair.	12.00	No		
b	Item same as above but consisting of 2No 5/15A socket and 2 No 15 A switch.	2.00	No		
c	S.I.T.C. of Independent power point with 16 Amp Industrial type Switch –sockets in metallic	5.00	No		
5	CIRCUIT WIRING : (Lighting Switch Boards)+ UPS Pt.+ R.P. Points				
	S.I.T.C. of 3X2.5 Sq.mm. F.R.L.S. copper flexible PVC wires laid in 19/20 mm. Middle gauge PVC conduits laid on wall/above false ceiling/Concealed as per requirement with all accessories etc. from L.D.B. to Switch- Boards. & From UPS O.P. D.B. to Work-station+ From R.P.D.B. To R.P. Pts on work-Stations(Max. 2 Nos of UPS & Raw power points to be connected on one circuit.)	175.00	Rmt		
6	LIGHTING FIXTURES :				
a	S.I.T.C. 10 Watt LED Down Lighting Fixtures including lamp with chain & anchor bolts wherever required.	30.00	No		
b	S.I.T.C. of angle holder for bulbs including cost of 15 w led lamp.	4.00	No		
c	S.I.T.C. of 600 mmx 600 mmx- 37 Watt LED FLAT PANEL Of HAVELLS Or Equivalent Approved Make	14.00	No		
d	S.I.T.C. of 20 w 4 ft. Tube Lights (For Toilet /Passage(1 X 20 LED)	7.00	No		

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7	. S.& I. of 4"x4" Red Danger Mark Stickers 230 Volt/ 440 Volt etc. to be fixed on all the D.B.'s S.& fixing	2.00	No		
8	Providing and fixing Copper bus bar 200 A with 4 copper strip of 50x6 mm size with MS	1	No		
9	Earthing System:				
a	Same as above but G. I. Pipe Type earthing and earth Pit as per I.S. 3043 and with above accessories (i.e Concrete chamber, Metal cover, watering funnel etc.) must be provided.	3.00	No		
b	S.I.T.C. of 2 runs of 16 mm. FRLS Copper wires in 40 mm PVC Conduit from Earthing Pits To Meter room Meter O/P. 100 Amp MCCB in Metal Box. Making Tight connections with Spring & Ring washers in both Earth Pits and Both ends of MCCB box in Meter Room.	30.00	Rmt		
10	DG Set Accessories:				
	4Pole 125 Amp Manual Changeover Switch For Mains to D.G. supply switching (If D.G. Back-up is provided) Depending upon Load.	1.00	No		
11	Ceiling / Exhaust Fan:				
a	S.I.T.C. Of 4 " high pressure Exhaust Fan fixed in PVC pipe in toilet/UPS/pantry Room. Complete work including cost of PVC pipe, bends and cowl.	2.00	No		
b	S.I.T.C. of 16" Wall mounted Fans	8.00	No		
12	MISCELLENOUS ITEMS				
a	S.I.T.C. Of Bell with Bell Point for BSM/Area Mgr	1.00	No		
b	S.I.T.C. of Timer with M.C.B.'s control for Sign Board of Branch.	1.00	No		
DATA CABLING WORK					
1	Providing and Laying Data cable (cat-6) of D-Link make in conduit from Hub / Router to work station in PVC conduit / flexible pipe as required. Data cable shall be laid in separate conduits (cost of conduits will paid extra) maintaining a distance of 600 mm from electrical wires/ cables. (Including punching and aptch wire as approved by Bank) (item includes patch cards of desired lengths)	50.00	Rmt		
2 (A)	Providing and fixing IO box of D-Link make at work station .	5.00	NO		
(B)	Providing Jack panel complete (including rack+panel+ 40 port switch) as per Bank's standard specificationi {(9U, 1 closed wall mont MS 18/20 SWG powder coated rack with glass door opening in the front with power panel cable manager with lock and key - Universal make).	1.00	No		
3	Laying of PVC conduit on floor, wall as required , 1.8 -2mm thick concealed Make as given				
	20 mm for telephone cable	35.00	Rmt		
	25 mm for data cable	35.00	Rmt		
AIRCONDITIONING WORK					
1	but for 1.5 Ton Split A.C.	2.00	No		
2	S.I.T.C. of suitable voltage stabilizers for above capacity Air-Conditioners. 1.5 Ton	2.00	No		
3	S.I.T.C. of 12.5 Sq.mm. & 6.25 Sq.mm. dia. Copper refrigerant pipe with foam Insulation	15.00	Mtr		
4	S.I.T.C. of copper conductor flexible cable between Indoor & Outdoor units through holes as	20.00	Mtr		
5	S.I.T.C. of 19/25 mm. PVC conduit pipe to be used as a drain water pipe. Through holes as made above.	20.00	Mtr		
6	S.I.T.C. of L shape / suitable shape M.S. Frame stand for mounting Outdoor Units on wall / On floor with all fixing hardwares. Out door stands will be fixed on terrace in group.	2.00	No		
TOTAL (WITHOUT G.S.T.)					