

## BOQ FOR ELECTRICAL WORK OF UCO BANK -BURRABAZAR BRANCH

Sl. No.	Particulars	Qty	Unit	Rate	Amount
<b>B</b>	<b>ELECTRICAL :</b>				
<b>1</b>	<b>Part 1 : LIGHT POINT WIRING</b>				
	Supply,laying, connection & testing of light,				
	fan point, wiring by 2x1.5mmsq(2x3/.029) +				
	1x1mmsq PVC insulated copper flexible wire				
	maintaining the colour code as per direction in				
	<b>PVC conduite ( MMS )</b> of 20mm with ISI mark 1.5 pvc wall thk.				
	to conceal in wall partition mending				
	good the damage, complete with pvc circular				
	box, bend to be done as per drawing				
	including 3 point ceiling rose where ever				
	required. GI saddle to be used for fixing,				
	pvc conduite/ flexible pipe may use				
	if requied in partition wall. All pvc pipes				
	should be with ISI mark. No joints will be				
	allowed inside pipe.Light, fan & plug point				
	complete with modular type switch plate &				
	MS box . Including the main circuite line				
	2x2.5mmsq+1x1.5mmsq earth PVC insulated				
	Cu. Wire,maintaining the colour code. Circuite				
	line for lighting switch board ,6Amps plug				
	board are to be drawn from lighting DB to				
	Lighting board & 6A plug point board, 6/16 Amps				
	plug point line are to be drawn from power DB.				
	3Nos lighting board/ 03 Nos.6Amps plug				
	are to be connected from one circuite				
	& 02 Nos. 6/16 plug to be connected				
	from one circuite(Lighting S.Board height-32" from				
	floor).				
a)	Lighting point complete with modular type				
	switch, plate, M.S. conceal box.				
	Point - 1 Light point control by 01 switch.	26	Nos		
	Point - 2 Light point control by 01 switch.	17	Nos		
	Point - 3 Light point control by 01 switch.	3	Nos		
b)	Exhust fan point same as item No. 1a				
	complete with modualr type switch plate &				
	MS conceal box & 3 pin ceiling rose.	5	Nos		
c)	Wall bracket point as above complete				
	with modular type switch,plate & M.S. conceal				
	box. Including one 2pin plug socket,front				
	plate & conceal box at fan end. Ht at 6'6" .	10	Nos.		
d)	Ceiling fan point as above complete with modular				
	type switch, modular plate & conceal box.				
	The rate is inclusive of 300 W electronics regulator.	4	Nos.		
	<b>Total Of Part 1</b>				

Sl. No.	Particulars	Qty	Unit	Rate	Amount
2	<b>Part : 2 RAW POWER WIRING</b>				
a)	Supply, Laying of Circuite line 2x2.5mmsq +1x 1mmsq PVC insulated copper wire form LDB to 6/16A or 6Amps Plug point. Also note that 03 Nos 06 amps Plug to be connected from one circuite line.				
	rest are same as item No 1.	162	Mts		
b)	Supply, Fixing & connection of modular type 6 amps Plug switch complete with circui wiring 2x2.5sqmm +1x1sqmm PVC insulated copper wire through 20mm dia PVC pipe & Ms box Socket switch above table at 32" height fr. Floor.	14	No.		
c)	- Do - but 16 Amps 6pin socket with 16amps switch for raw/UPS power point. ( 02 Nos plug connected from one circuite.)rest as item no 1 (Ht.of Plug point as per advice of consultant).	3	No.		
	<b>Total Of Part 2</b>				
3	<b>Part : 3 TELEPHONE WIRING.</b>				
a)	Supply laying & connection of same as item no.1 but with 2 pair 0.51mmsq tinned CU. conductor through PVC regid ISI mark pipe from telephone point to Korne DB complete with RJ - 11 telephone socket modular type in MS conceal box.under table at 22" Ht.+ one tele. phone point near HUB Rack	5	No.		
b)	Supply & fixing & connection of Cat -5 cable from VSNL D.B to HUB rack through separate pipe for Lease line & ISDN line.(02 Line)	28	Mt.		
c)	Do - 10 pair .51mmsq copper conductor telephone cable in 20mm dia PVC pipe from VSNL D.B to 20 pair KORN connector.	25	Mts		
d)	Supply fixing & connection of 10 pair KRONE connector DB complete with PVC moulded Telephone DB box with locking system.	1	Set		
	<b>Total Of Part 3</b>				
4	<b>Part : 4 SUPPLY, FIXING &amp; CONNECTION OF LIGHT FITTINGS WITH LAMP / FANS :</b>				
a)	Supply Installation, testing & commissioning of 595x595mm 36W 5700K high spec base LED panel lights of CRCA housing of approved make ( PBLM21368 ) To hang from true ceiling by 25x3 mm M.S flat with nuts and bolt as required.	22	Nos		
b)	Supply, Installation, testing & commissioning of 15W 5700K 125mm dia LED recessed down light comprising of casted Al housing with SS springs for recessed mounting arrangements of approved make. ( PDL26158 ).	29	Nos		
c)	Supply, Installation, testing & commissioning of LED PC batten 5W 300mm of approved make in cash and SW counter.( PBTM01057 )	4	Nos		

Sl. No.	Particulars	Qty	Unit	Rate	Amount
d)	SITC of 225 mm dia heavy duty Exhaust fan 230 volt A.C. The rate is inclusive of necessary hole cutting and plastering.	4	Nos		
e)	SITC of High speed Wall mounting fan oscillating type 400 mm dia 230 volt A.C.	10	Nos.		
f)	Supply, Installation, testing & commissioning of 4'-0" long 20W 5700K commercial batten light comprising of extruded Al housing with PC Diffuser, PC endcaps & spring steel clamps for surface mounting arrangement of approved make. (PBTM08208)	14	Nos		
g)	SITC of Ceiling fan 48" sweep 230 volt A.C., double bearing with "S" hook cutting with plastering and cable connection complete	4	Nos.		
	<b>Total Of Part 4.</b>				
<b>5</b>	<b>Part : 5, UPS WIRING :</b>				
	Supply, fixing & connection of UPS				
	circuit line with 2x2.5+1x1.5mmsq through				
	PVC conduit 20mm dia 16 SWG wall				
	thickness, with ISI mark, to lay from UPS MCB				
	DB to plug point board. Rest same as item no.1				
	Two nos point to be connected from One				
	circuit.	185	Mts		
a)	Supply, fixing of 2x6Amps 5 pin socket + 1x16				
	Amps 6 pin socket in single board (under				
	table) + 1 x 16 A switch in another board				
	above table as per direction. (under table Ht22")	10	Set		
b)	- Do - but 2x6/16, 6pin socket with 2x16A switch to				
	provide near HUB rack & line printer, ATM are				
	to be connected from UPS power.	2	Set		
c)	Supply, laying & connection of 4x6mmsq + 2x4mmsq				
	PVC insulated copper conductor cable (FRLS) through				
	PVC rigid/flexible conduit from the UPS incoming				
	MCB box to UPS.	35	Mt.		
d)	Supply, laying & connection of 2x6mmsq + 1x4mmsq				
	PVC insulated copper conductor cable (FRLS) through				
	PVC rigid/flexible conduit from UPS out				
	going to UPS DB	65	Mt.		
e)	UPS incoming power to drawn by 6mm 4Core				
	Cu. Conductor PVC insulated armoured cable				
	with 2nos of bare copper wire of 14 SWG	32	Mt.		
f)	Supply, installation & termination of 40 Amps				
	DP MCB with Metal enclosure for UPS out going				
	Line. (for 5KVA 2 nos UPS unit)	2	No.		
g)	Supply & installation of UPS incoming				

Sl. No.	Particulars	Qty	Unit	Rate	Amount
	40 Amps 4 pole MCB MDS make in MS enclouser for Incoming Line as per instruction of consultant.	2	No.		
h)	Supply, installation and termination of UPS outgoing power distribution system with 12 Way SPN DB comprising 8x10Amps SP MCB & 40 Amps DP RCBO 300MA as main.				
	MDS make IP -42 Double Door.	2	Nos		
	<b>Total Of Part 5.</b>				
6	<b>Part : 6 LAYING OF CABLE :</b>				
a )	Supply, laying & fixing main power with 50mm sq 3.5 core PVC insulated,PVC sheated Alu. Conductor, 1100 v. grade armoured cable complete with 02 nos 8 SWG bear GI.wire as running earth. (main power cable) & hardware.	47	Mts		
b)	End termination of 50 mmsq 3.5 Core armoured cable,complete with brass cable gland , Alu. Lug, PVC tape.	4	End		
	<b>Total Of Part 6</b>				
7	<b>Part :7 Main DB's</b>				
(a)	Supply,fixing and connection of prefabricated ready made D.B MDS make double door 6way TPN MCB D.B. for power along with following complete: 6way TPN MCB DB with 63A 4 pole MCB as main ( POWER DB). 20A SPMCB - 8Nos +16 A SPMCB - 5 Nos. +10A SPMCB - 5Nos. including Neutral Bar.	1	Set		
( b )	Supply,fixing and connection of prefabricated ready made D.B MDS make double door 4way TPN MCB D.B. for power along with following complete: 4way TPN MCB DB with 40A 4 pole MCB as main ( LIGHT DB). 10A SPMCB - 8Nos + 6A SPMCB - 4Nos including Neutral Bar.	1	Set		
( c )	150x100mm enamel <b>Danger</b> board 440 volt. One board to fixed on D.B.	2	Nos		
( d )	Supply,fixing and connection of 63 A, 4pole C/O switch with enclosure side handle operated for lighting DB.	1	No		
( e )	Supply,fixing and connection of 63 A 4 pole copper bus bar complete with 440 volt danger board & necessary materilas.	1	No		
(f)	Supply,fixing and connection of 8"x6" M.S.Box with 3 nos sliding fuse + 3 nos brass batten holder + 3 nos 15W lamp ( Red,yellow & Blue)	2	Set		

Sl. No.	Particulars	Qty	Unit	Rate	Amount
g)	Supply, fixig & connection with S.M. housing 4 pole 40A MCB for lighting on and off.	1	No		
h)	Supply,fixing and connection of 63A, 4pole C/O switch only for light run from gen.set. Including all necessary alu. Lugs cable, tape all complete and testing.	1	No		
	<b>Total of Part 7</b>				
8	<b>Part : 8 EARTHING STATION :</b>				
a)	Earthing installation as per I.E. rule conforming to <b>IS 3043-1987</b> or its latest amendent by making earth station with <b>600x600x3mm</b> (mini-mun) thick copper plate electrode to be installed such that is top edge shall be at a minimum depth of 3.3mts below ground level after preparation of ground with charcoal, sand ,& salt, connecting the <b>25x3mm</b> thick copper lead in strip (upto 10 mts length) by bolting and brazing to the copper plate complete with Brass bolt of suitable length double nuts & washer including supply & fixing of <b>40mm dia 2.3Mts</b> long partly perforated G.I. Pipe with funnel for watering arragment. N.B :- <u>The Copper plate to be buried under 3.3Mts depth from ground level, including C.I. Pit 300x300mm with necessary brick wall ( For UPS earthing).</u>	1	Set		
b)	SpikeEarthing with G.I. Electode 3mts. Longx50 mm dia (Class - B) including accessories and providing masonary enclosure with cover 300x300mm plate having locking arrangement and watering funnel Etc. with charcoal, sand & salt at alternate layer as required for electrical panel earthing.	2	Nos.		
c)	Supply laying 2x8SWG copper bear wire from earth spike to main panal.(Electrolite wire)	35	Mts		
d)	Supply and fixing of earth bus bar of 25mm (W) x 3mm ( Thk.)x200mm (L) complete with brass nut bolt washer - 4 nos and bus insulator.	2	No.		
e)	Do but with 1x16mmsq insulated copper wire from earth spike to UPS earth bus bar through PVC regid 20mmdia ISI mark.	32	Mts		
	<b>Total Of Part 8</b>				
9	<b>Part : 9 OUT DOOR TYPE GLOW SIGN BOARD WIRING</b>				
a)	Supply, laying of main line with 2x2.5 +1x1.5 mmsq through pvc conduite from main panel to glow sign board.	28	Mts		

Sl. No.	Particulars	Qty	Unit	Rate	Amount
b)	Supply installation of 16 amps DP mcb at main entrance Glow sign board complete with timmer & contractor (2NO + 2NC). 24 Hrs in original housing.	1	Set		
	<b>Total Of Part 9</b>				
10	<b>Part : 10 GEN SET WIRING</b>				
a)	Supply, laying and fixing of main power with 25mm <sup>2</sup> sq 4 core PVC insulated,PVC sheated Alu. Conductor, 1100 v. grade armoured cable complete with 02 nos 8 SWG bear GI.wire as running earth.From genset power upto Main DB.	42	Mts		
b)	End termination of 25 mmsq 4 Core armoured cable,complete with brass cable gland , Alu. Lug, PVC tape.	4	End		
c)	63 A, 4 pole MCB with its original MCB fixing S.M. box ( one for gen set room )	1	Nos		
	<b>Total Of Part 10</b>				
11	<b>Part : 11 A/C ELECTRIFICATION</b>				
a)	Supply laying & connection of A/C. line for 1.5 TR A/C. window / split with 2x4 + 1x2.5 mmsq through 16 SWG pvc conduite with ISI Mark rest same item no 1.	35	Mts		
b)	Supply laying & connection of A/C. line for 2TR A/C. window / split with 2x6 + 1x4 mmsq through 16 SWG pvc conduite with ISI Mark rest same item no 1.	150	Mts		
c)	Supply & fixing of A/C. 18-25 Amps stator complete with 25 amps socket in modular type box.( Noth - West Make)for window unit. For split unit plug socket to be fixed near cooling unit & stator at 3.5 Ft from floor.	6	Nos		
	<b>Total of part 11</b>				
12	<b>Part : 12 MAIN SWITCH</b>				
a)	Supply fixing of 63 Amps TPN HRC type SFU at SEB for main incomming on MS angle. frame & 02 nos Cable end box including connection. L& T make for main incoming end	2	No.		
	<b>Total Of Part 12</b>				
	<b>Summary Sheet</b>				
	Part 1 Light Point wiring.				
	Part 2 Raw power point.				
	Part 3 Telephone wiring.				

Sl. No.	Particulars	Qty	Unit	Rate	Amount
	Part 4 Light Fittings.				
	Part 5 UPS wiring.				
	Part 6 Laying of cable				
	Part 7 Main panel				
	Part 8 Earthing station.				
	Part 9 Wiring Of Glow Sign Board.				
	Part 10 Wiring of Gen - Set power.				
	Part 11 A/C Electrification				
	Part 12 Main Incomming Switch Fuse Unit.				
	<b>TOTAL - B</b>				