

**BOQ FOR ELECTRICAL WORK OF UCO BANK -RAJAGRAM BRANCH INCLUDING ATM**

Sl. No.	PARTICULAR	Qty	Unit	Rate	Amount
1	<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</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.	14	Nos		
	Point - 2 Light point control by 01 switch.	18	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.	4	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" .	9	Nos.		
d)	Ceiling fan point as above complete with modular				
	type switch, modular plate & conceal box.				

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	The rate is inclusive of 300 W electronics regulator.	1	Nos.		
e)	Call bell point same as above complete with modular type push switch,plate & M.S. conceal box with Din - Dong type bell.	1	No.		
	<b>Total Of Part 1</b>				
<b>2</b>	<b>Part : 2 RAW POWER WIRING</b>				
a)	Supply, Laying of Circuite line2x2.5mmsq +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.	167	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.	10	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).	2	No.		
	<b>Total Of Part 2</b>				
<b>3</b>	<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 fror Lease line & ISDN line.(02 Line)	26	Mt.		
c)	Do - 10 pair .51mmsq copper conductor telephone cable in 20mm dia PVC pipe from VSNL D.B to 20 pair KORN connector.	29	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>				

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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.	10	Nos		
b)	Supply,Installation, testing & commissioning of 15W/18W 3000-6500K 139-169mm dia LED recessed down light comprising of casted Al housing with SS springs for recessed mounting arrangements of approved make. ( PDL26153-158 )	38	Nos		
c)	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)	2	Nos		
d)	225 mm dia heavy duty Exhaust fan 230 volt A.C. ( EPC / Crompton make).	3	Nos		
e)	Hi-speed wall mounting fan 400 mm dia 230 volt A.C.( Crompton/Orient )	9	Nos.		
f)	Supply,Installation, testing & commissioning of 4'-0" long 22W 5700K commercial batten light comprising of extruded Al housing with PC Diffuser , PC endcaps & spring steel clamps for surface mounting arrangement of approved make. ( PBTM17228)	5	Nos		
g)	Ceiling fan 48" sweep 230 volt A.C.( Crompton/Orient ) with " S" hook cutting with plastering and cable connection complete	1	Nos.		
h)	Supply, installation,testing and commissioning of 5W LED tube ( PBTM01057 ) .	4	Nos		
	<b>Total Of Part 4.</b>				
5	<b>Part : 5, UPS WIRING :</b>				
	Supply, fixing & connection of UPS				
	circuit line with 2x2.5+1x1.5mmsq through				
	MS 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 .	225	Mts		
a)	Supply, fixing of 2x6Amps 5 pin socket + 1x16				
	Amps 6 pin socket in single board (under				

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	table) + 1 x 16 A switch in another board				
	above table as per direction.(under table Ht22")	11	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 regid/flexible conduit from the UPS incomming				
	MCB box to UPS.	33	Mt.		
d)	Supply, laying & connection of 2x6mmsq +1x4mmsq				
	PVC insulated copper conductor cable ( FRLS) through				
	PVC regid/flexible conduit from UPS out				
	going to UPS DB	57	Mt.		
e)	UPS incomming power to drawn by 6mm 4Core				
	Cu. Conductor PVC insulated armoured cable				
	with 2nos of bare copper wire of 14 SWG	35	Mt.		
f)	Supply , installation & tremination of 40 Amps				
	DP MCB with Metal enclouser for UPS out going				
	Line .(for 5KVA 2 nos UPS unit)	2	No.		
g)	Supply & installation of UPS incomming				
	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.	42	Mts		
b)	End termination of 50 mmsq 3.5 Core				
	armoured cable,complete with brass cable				
	gland , Alu. Lug, PVC tape.	4	End		

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Sl. No.	PARTICULAR	Qty	Unit	Rate	Amount
	<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		
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				

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	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 arrangement.				
	<u>N.B :- The Copper plate to be buried under</u>				
	<u>3.3Mts depth from ground level, including</u>				
	<u>C.I. Pit 300x300mm with necessary brick</u>				
	<u>wall ( For UPS earthing).</u>	1	Set		
b)	Spike Earthing with G.I. Electrode 3mts. Longx50				
	mm dia (Class - B) including accessories and				
	providing masonry 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 bare wire from				
	earth spike to main panel.(Electrolite wire)	36	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 rigid 20mmdia ISI mark.	39	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 conduit from main panel				
	to glow sign board.	25	Mts		
b)	Supply installation of 16 amps DP mcb at main				
	entrance Glow sign board complete with timer &				
	contractor (2NO + 2NC). 24 Hrs in original housing.	1	Set		
	<b>Total Of Part 9</b>				
10	<b>Part : 10 A/C. electrification :-</b>				
a)	Supply laying & connection of A/C. line for				

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Sl. No.	PARTICULAR	Qty	Unit	Rate	Amount
	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.	145	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.	7	Nos		
d)	Supply installation of 16 amps DP mcb at ATM				
	for A.C complete with timmer &				
	contractor (2NO + 2NC). 24 Hrs in orginal housing.	1	Set		
	<b>Total of part 10</b>				
11	<b>Part : 11</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 11</b>				
	<b>Summary Sheet</b>				
	Part 1 Light Point wiring.				
	Part 2 Raw power point.				
	Part 3 Telephone wiring.				
	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 A/C Electrification				
	Part 11 Main Incomming Switch Fuse Unit.				
	<b>Grand Total - A Rs :-</b>				