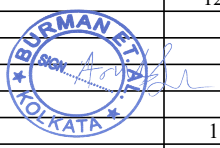
BOQ OF ELECTRICAL JOB FOR NIKHARIGHATA BRANCH

SR.NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELECTRICAL WORK				
5	MAIN ELECTRICAL Cubical type panal.				
i	**MAIN VTPN DB**				
	Supplying, installing, testing & commissioning				
	of 24 Slots, Vertical busbar, MCB type Power Distribution				
	Board **(MAIN VTPN DB)**, flush mounted on wall, sheet				
	metal fabricated , powder coated, having				
	dust-proof and vermin proof , and hinged door				
	with all internals such as DIN rails, neutral-link,				
	interconnected wiring complete with earthing				
	lugs housing following switchgears.				
	1 no., 125A, 4P MCCB as incomer				
	4 no., 63/40A, TP MCB				
	8 no.,40/32/25 A SP MCB				
	6 nos, 20/16A, SP, MCB outgoing	1.00	SET		
i	125 amps 4P CHANGE OVERSWITCH ON LOAD TYPE in sheet steel enclosure complete with all mounting accessories before lighting DB with necessary cable jointing adaptor box	1.00	No		
ii	32/25A roll socket complete with 32/25/16/10 amps DPMCB with 3 pin metal clad socket - waterproof tight (IP 65) for wall unit split AC machine	-	**Nos**		
iii	40A/32A DP MCB in sheet steel enclosure complete with all mounting accessories for UPS & others	2.00	Nos		
	Providing and Supplying 40 A TP MCB as a master Switch to switch off all the LDB Loads,located at the Entrance of the Branch.	1.00	Nos.		
6	**DISTRIBUTION BOARDS**				
	Supply, installation, testing & commissioning of Distribution Boards surface / flush mounted with Double door containing MCB/ELMCB as incomer and SPMCB as outgoing. All MCBs are of 10KA breaking capacity and ELMCBs/RCCB should be of 30mA/100 MA sensivity. The DB shall have appropriate no. of top and bottom knock outs for outgoing circuits and shall be complete with necessary busbars, interconnection terminals and earth studs. All terminations in DB shall be complete with ferulling, dressing and all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant. For UPS DB MCB shall be 'D' type and other MCBs shall be 'C' category for lighting and raw power DB				
i	**Lighting & power Distribution Board -**	1.00	No		
	12 way TPN DB				
	Incomer40A 4P MCB C TYPE+elcb30mA				
	Outgoings :6/10 SP MCB, 'C' Type - 36 Nos				
ii	**Power Distribution Board (ATM ROOM)**	1.00	No		
	4 way TPN DB				
	Incomer:40A 4PMCB+ ELCB 100 ma				
	Outgoings : 32 A SP MCB - 2 Nos ; 16/20 SP MCB, 'C' Type - 4 Nos				
iii	**UPS Power Distribution Board -(FOR 3KVA UPS)**	1.00	No		
	12 way SPN DB				
	Incomer:40A DP MCB, 'D' Type				
	Outgoings :16/10 SP MCB, 'D' Type – 10Nos				
iv	**UPS Power Distribution Board - UPS DB-2KVA-ATM)**	1.00	No		
	6 way SPN DB				
	Incomer20A DP MCB, 'D' Type				
	Outgoings :16/20 SP MCB, 'D' Type - 4 Nos				

7	**EARTHING STATION :**				
a)	Earthing installation as per I.E. rule conforming				
	to **IS 3043-1987** or its latest amendent by				
	making earth station with **600x600x3mm**(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 **25x3mm** 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 **50mm dia 2.3Mts** long partly perforated				
	G.I. Pipe with funnel for watering arragment.				
	N.B :- **The Copper plate to be buried under**				
	3.3Mts depth from ground level, including				
	C.I. Pit 300x300mm with necessary brick	1	Set		
b)	**wall (For UPS earthing).**				
	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 panal earthing.	1	No.		
c)	(For main electrical panel earthing.)	28	Mts		
d)	Supply laying 1x8SWG copper bear wire from				
	earth spike to main panal.(Electrolite wire)				
	Do but with 1x16mmsq insulated				
	copper wire from earth spike to UPS earth				
	bus bar through PVC regid 20mmdia ISI mark.	48	Mts		
8	**A/C. electrification :-**				
a)	Supply laying & connection of A/C. line for				
	1.5 /1TR A/C. window / splite with 2x4 + 1x2.5	48	Mts		
	mmsq throughRegid PVC conduite rest same				
	item no 1.				
b)	S/Fixing AC Box as per company specification with 25 Amp SPMCB with 25AMP Socket	7	Nos		
9	**Out door type glow sgn board wiring :-**				
a)	Supply laying of main line with 2x2.5 +1x1.5	12	Mts		
	mmsq through MS conduite from main panal				
	to glow sign board.				
b)	Supply installation of 16 amps DP MCB at main				
	entrance Glow sign board WITH TIMMER MDS MAKE	1	Set		
10	Supply fixing of 100Amps TPN HRC type SFU				
	at SEB for main incomming on MS angle.	1	No.		
	frame & 02 nos Cable end box including				
	connection.				



11	Supply,laying, connection &testing of light,				
	fan point, wiring by 2x1.5mmsq(2x3/.029) +				
	1x1mmsq PVC insulated copper flexiable wire				
	maintating the colour code as per direction in				
	PVC conduite of 20mm with ISI mark 1.5mm				
	thickness to conceal in wall partition mending				
	good the damage, complete with PVC circular				
	box, bend to be done as per drawaing				
	including 3 point ceiling rows wherever				
	required GI saddle to be used for fixing,				
	metal flexiable/PVC flexiable 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 .				
a)	Lighting point complete with modular type				
	switch, plate, M.S. conceal box.				
	Point - 1 Light point control by 01 switch.	12	Nos		
	Point - 2 Light point control by 01 switch.	14	Nos		
	Point - 3 Light point control by 01 switch.	2	No.		
	Point - 4 Light point control by 01 switch.	0	No.		
b)	Exhust fan point same as item No. 1acomplete with modualr type switch plate &MS conceal box & 3 pin ceiling rose.	3	Nos		
c)	Wall bracket fan 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.	8	Nos		
d)	48" dia ceiling fan 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.	2	Nos		
e)	Call bell point same as as bove complete with modular type push switch,plate & M.S. conceal box with buzzer type bell.	1	No.		
12	Supply Laying of Circuit line2x2.5mmsq +1x1mmsq PVC insulated copper wire form MCB DB(LDB) to lighting SB & Raw power plug point (6Amps)rest are same as item no.1.3 light board or 6 amps plug connected from one circuite.	238	Mts		
a)	Supply Fixing & connection of modular type 6 amps Plug switch complete with Ms box Socket to fixed above table. 03 nos plug can be connected from 01 circuite	8	No.		
b)	Same as above but 16 Amps 6pin socket with 16amps switch for raw power point. (01 Nos plug connected from one circuite.)	6	No.		
13	**UPS WIRING :**				
a)	Supply fixing & connection of UPS circuite line with 2x2.5+1x1.5mmsq through regid PVC conduite 20mmdia 1.6 mm wall tickness, 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 circuite .	170	Mts		
b)	Supply fixing & connection of UPS circuite line with 16 sqmm (approved make) wire to be connected from main to UPS for use UPS charging purpose only. Connection must through with MCB .	26	Mts		
c)	Suppy fixing of 2x6Amps 5 pin socket + 1x16 Amps 6 pin socket in single board (under table) + 1x16 A switch in another board above table as per direction.	10	Set		
d)	Same as above but 3x6/16, 6pin socket with switch to provide near HUB rack, are to be connected from UPS power.	2	Set		

e)	Supply laying & connection of UPS incomming power linewith 2x6mmsq +1x2.5 PVC insulated copper wire rest same as item no item no. 1 from PDB to UPS incomming power switch.including 1 nos outgoing line.	48	mtr		
f)	Supply installation of UPS incomming 63Amps DP MCB with orginal housing of Legrand make.	4	no		
g)	Supply installation and termination of UPS outgoing power distribution system with 10+2Way SPN DB comprising8x10Amps SP MCB & 40 Amps DP MCB as main	3	no		
14	**LAYING OF CABLE :**				
a)	Supply laying fixing main power with 50 mm 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.	10	Mts.		
b)	End termination of 50 mmsq 3.5 Core armoured cable,complete with brass cable gland , Alu. Lug, PVC tape.	10	End		
15	**LAN WORK**				
D	**Data /Voice Network System**				
1	Supply & Installation of cat - 6 Data Cable	272.00	Mtr		
2	RJ - 45 Data Socket With Plate	7.00	Nos		
3	RJ - 11 Voice Socket	7.00	Nos		
4	Supply & Installation of Voice Cable - 4 pair Telephone Cable un armoured PVC Sheated .	66.00	Mtr		
5	10 Pair Tag Block Crome type on MS box	2.00	Nos		
6	P/F 9U Rack	1.00	Nos		
7	EPABX Box		Nos		
8	Patch code-3 Meter	9.00	Nos		
9	Patch code- 1.5 Meter(inside rack to connect router to patch panel)	9.00	Nos		
10	24 Port Switch		Nos		
11	24 Port Jack Panel	1.00	Nos		
16	**LIGHT FITTINGS / FANS :**				
A	Reccese mounted 40 watt LED PHILIPS/ HAVELS MAKE FITTING 2'-0"X2'-0"	12	Nos.		
B	PHILIPS/ HAVELS make 1x40 watt Tubelight fittingswith truelite with both end cap white	4	Nos.		
C	Reccese mounted 18 watt LED PHILIPS/ HAVELS MAKE down lighter.	22	Nos		
D	225 mm dia heavey duty Exhust fan 230 volt A.C. (EPC / PHILIPS make).	1	Nos		
E	Wall mountaing fan 400 mm dia 230 volt A.C. METAL BODDY	8	Nos.		
F	48" CEILING FAN WHITE COLOUR (ORIENT/PHILIPS/HAVELS)	1	Nos.		
G	PHILIPS/ HAVELS make 2x40 watt TL fittingswith truelite with both INDUSTRIAL TYPE FIXED DIRECT ON TRUE CEILING.	6	Nos		
H	PHILIPS/ HAVELS make 1x40 watt 2' lenthTubelight fittingswith truelite with both end cap white	4	Nos.		
	TOTAL FOR ELECTRICAL WORK				

BURMAN E.T.A.L. SIGN KOLKATA