

**BOQ FOR ELECTRICAL WIRING WORKS AT DABOLI BRANCH, RBO-II, A.O. KANPUR**

<b>S. No.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>	<b>RATE in Rs</b>	<b>AMOUNT in Rs.</b>
1	Providing & installation of 125 Amp, 415 V, 3 pole with neutral molded case circuit breakers (MCCB) thermal setting fixed 25 KA with sheet Steel enclosure with proper insulating sheet, painting, complete with iron studs/bolt, connection, testing etc. complete in all respect. (01 for B'hall light and 3ACs--syst /BM, 01 for UPS ckt & and ACs (To be fitted Near stair case back side)	1		
2	Providing and Installation of busbar chamber made of 16 g sheet steel duly painted with one code of primer and two code of Synthetic enamel paint with rubber gasket and front cover containing 04 nos. electrolytic quality copper busbar size (3 phase and neutral) of 50 x 6 mm(300 A) duly supported in robust manner on porcelain insulator with at least 32 mm clearances between busbar complete with iron frame / bolt etc. complete in all respect. If req for UPS.	1		
3	Supply & installation on angle iron frame of 06 way TPN vertical DB with double door at suitable place & Ht. Comprising with 100A Inlet 03 pole MCCB. TPMCB 25 Amp 05 No, 32A, 03 Nos. Outlet. All MCB to be of C series suitable for motor/ inductive load, with blanking plates for blank slots. Complete connection testing etc. in all respect. (For AC Ckt)	2		
4	Supply & laying 1100 V aluminum conductor PVC insulated PVC sheathed armored cable on surface (as required)including MS saddle screws two runs of 10 SWG GI wire along with cable of following size: ***TO BE PROVIDED WITH CONSULTATION WITH UPPCL STAFF AS PER ACTUAL REQUIREMENT only. Vendor to take measurement for actual cable Length before dispatching to the site.			
	a) 31/2 x 70 MM <sup>2</sup>	20		
	b) 31/2 x 50 MM <sup>2</sup>	50		
	c) 31/2 x 35 MM <sup>2</sup>	60		
5	End termination of cable of following size using dowells make copper cable Lugs/cable sockets of as required.			
	a) 31/2 x 70 MM <sup>2</sup>	6		
	b) 31/2x50MM <sup>2</sup>	12		
	c) 31/2 x 35 MM <sup>2</sup>	12		
6	Providing & Installation on angle iron frame of manufactures sheet steel 20A socket board with cover & 2 pole & earth metal plug and socket and 25/32 Amp SPMCB complete in all respect for air conditioners.	5		
7	Providing & Installation on angle Iron frame of suitable MS MCB /DB enclosure i.e. 4 way SPNDB (Consumer unit) complete in all respect including earthing links etc comprising of C series MCBs.			
	i) One 20/25 Amp ELCB 300 MA for UPS output in UPS room, for system room and B'Hall Ckt complete testing in all respect.	3		
	ii) S/F One 25 Amp ELCB, 100 MA, 2 POLE in a suitable MS box to be connected before the AC stabilizer, complete testing fixing/installation complete in all respect. (for AC)	5		
8	Supply and fixing of change over (MCB) on suitable angle iron frame / bolt 32 A double pole at UPS output Ckt. Complete wiring testing etc.	1		

9	Wiring for air conditioners with 2 wires of size 6 mm <sup>2</sup> for Phase & neutral and one wire of 4 mm <sup>2</sup> for earth in 25 mm medium duty, ISI marked, PVC conduit of suitable size, wire to be of 1100 V grade insulated with copper conductor concealed on wall. Complete commissioning etc.	90		
10	Wiring from TPNDP to isolation transformer / Stabilizer and to UPS I/P ( and earthing as provided) with 02 PVC copper wires of size point 10 mm <sup>2</sup> for phase & neutral in 20 mm PVC conduit, wire to be of 1100 V grade PVC insulated with copper conductor, on wall. Complete with ms saddle fixing testing commissioning including sub main ckt etc. few old good ckt for UPS may be used.	8		
11	Wiring from UPS O/P DP's /COS to SPNDB fitted in UPS room for B'Hall with 2 wires of size 6 mm <sup>2</sup> for phase neutral and one wire of 4 mm <sup>2</sup> for earth in 20 mm PVC conduit, wire to be of 1100V grade PVC insulated with copper conductor, on wall. Complete with ms saddle fixing testing commissioning including submain ckt etc. few old good ckt for UPS may be used.	160		
12	Supply and fixing of <u>04 Nos 10 Amp</u> Switch and 4 Nos. modular type Per point 16/6 Amp socket 5pin on suitable modular plate and manufacturers steel box including circuit wiring from SPNDB to computer socket board With 2.5sqmm pvc copper wire with 1100v grade flexible / stranded wires for Phase neutral and earth in PVC conduit on surface and floor concealed up to computer socket boards complete with MS saddle, fixing, connection, testing / commissioning in all respect for <u>system/prn</u> room on counters, tables, wall, as required by the branch.( <u>One power board with 4 socket /switches &amp; required wiring will be treated one ckt to be connected with maximum 03 power Board.</u> ) Server and line printer point to be connected with separate ckt each with one power board. To avoide use of more number of PVC pipe 32/25/20 mm pvc pipe may be used i.e. as per IS. For different e-circuit and pvc conduit to be used.	12		
13	Wiring from Energy meter to Kitkat fuse neutral link and or Item No 1 TPN switch fuse unit ie if provided with 1100V grade PVC insulated 4 Nos. 16 MM <sup>2</sup> copper wire in PVC conduit/ flexible pipe. Complete testing/commissioning etc.	4		
14	Providing and fixing of RYB Phase indicator lamps in system room including a suitable box connection /testing etc.	1		
15	Supply and burring of safe Earthing Electrode T-19 (hot dip Galvanized), Length 3000mm, outer pipe 50mm, inner pipe 25, Terminal Dia 12mm, outer GI pipe of 16SWG And inner GI pipe of 12swg with Hot dip Galvanization up to 100 micron filled with crystalline conductive mixture (CCM) Having Anti corrosive & conductive property with 50 Kgs activated soil (BFC) capable of reducing the soil resistivity with good mixture of retaining capacity along with 15cm sq MS frame Junction Box with cover (from electrode terminal to sw board, cost of GI strip will be extra). Make: As approved in UPPWD & CPRI certified. (one for router 02 for ups and 01 for safety)	4		
16	As per SI No. with 25X3MM GI STRIP concealed on wall / floor up to 1st per mtr point complete in all respect.	25		
17	Providing & installation of 1x10SQMM PVC insulated copper wire in 20mm PVC pipe up to inside from earth station.(sl ) in side of UPS room complete in all respect including fixing with nut and bolts (concealed on wall/floor).	20		
18	Supply & fixing, light, Fan & sw, socket point in System/UPS room/Printer room and at suitable place as required by the branch, (point from UPS SPNDB /DPMCB for System /UPS room complete testing, commissioning in all respect with 1.5 sqmm pvc 1100v grade copper insulated wire for phase, Neutral and earth (if required)in pvc conduit (concealed on wall/floor and making the same). Item include modular switch socket, board, front plate etc. near entrance, CM lobby and near gate.	5		
19	As above sl with ms switch board of non Modular type, wooden finish cover front cover, 10A switch 6A multi socket Non moudular type with screw/ washer etc. Wiring to commence from UPS TPNDP light MCB/Fuse unit to switch board and then To points complete in all respect as per branch requirement.**03switch and 03 socket on each counter (i.e 03 switch & sockets will be Treated one point). One ckt may be Given up to 06 switch and socket i.e 02.Switch boards at general places.	10		
20	Supply and fixing MS danger notice board.	2		
21	Wiring for two indication lamps from UPS output DP/DB critical/non critical circuits in 02separate PVC conduit with lamp, holder in a suitable box with connections / testing etc complete in all respect in UPS room.	1		

22	Point wiring with 3x1.5 sqmm pvc copper wire in PVC conduit for light/fan/socket on boards. Wiring to commence and <u>include circuit wiring</u> , also in PVC conduits from TPNMCBDB located in UPS/B' hall to point switch boards and their after to the points including provision of <u>3 plate ceiling rose</u> and junction box as required of light/fan points would be either individual in group up to a max of two points. Item include supply & Installation Of <u>modular</u> ms board, switches, sockets, <u>Modular type</u> for light fan etc. Enough loose wire (1-2 mtr) to be left at point end/ceiling Rose for connection to fixture etc which to be installed in arms strong false ceiling. (one point in the quantity given against this item means either or individual point or a group point to controle up to point one switch) @ as per requirement only.	60		
23	Supply, installation, testing and Commissioning of power point with 1100 V grade , FRLS , PVC insulated multistrant 4sqmm cu wire for phase and neutral and 2.5sqmm cu wire for earth in <u>ISI marked medium duty PVC conduit</u> including all accessories boxes as required, Maximum Point on one circuit should not exceed <u>Two</u> . for water cooler, glow sine, TV, Hooter, music system, pantry, flood light pt. ( <u>Cash, locker record &amp; stationary room to be connected through a lead or 3x1.5sqmm pvc copper wire in a thick pvc pipe to outside with 15Amp socket this will be paid extra</u> ) or as required by branch at suitable place) Circuit to be connected from Branch TPNDDB, controlled by each point with each switch testing/commissioning in all respect, concealed properly. Wiring to commence <u>from branch TPNDDB/Fuse unit to switch board and then to</u> connection testing etc in all respect as per branch requirement. In PVC conduit (concealed on wall/floor and making good the same). <u>Item include</u> supply & Installation Of NON modular MS board, 15/20Amp switches, Sockets etc. complete for power board.	5		
24	Supply & installation on angle iron frame of <u>06 way TPN DB</u> double door at suitable place & Ht. Comprising with 40A SPMCB 03Nos. 10-32 A, SPMCB 12 No. Outlet and one incomer 63 A ELCB 3 phase, 100MA. All MCB to be of C series suitable for motor/ inductive load, with blanking plates for blank slots. Complete connection testing etc. in all respect. (light ckt)	1		
25	Providing & installation on angle iron frame of 2+8 way SPN distribution board with cover/door (plastic or ms) comprising of one 25Amp incoming DPMCB and, eight 10Amp out going SPMCB All MCB's to be of C series Suitable for motor/inductive load, Complete Connection testing etc in all respect. (for UPS)	3		
26	Providing & installation on angle iron frame of 2+8 way SPN distribution board with cover/ door(plastic or ms) comprising of one 25Amp incoming ELCB 100MA and, eight 10Amp out going SPMCB. All MCB's to be of C series Suitable for motor/inductive load, Complete Connection testing etc in all respect.	3		
27	Providing & installation on angle iron frame of suitable MS MCB /DB enclosure ie 4 way SPNDB (Consumer unit) complete in all respect including earthing links etc comprising of C series MCBs. i) S/F One 32 Amp ELCB/RCCB, 100MA, 3 ph in a suitable ms box to be connected before the AC, Complete testing fixing Connection testing etc in all respect.	4		
28	Dismantling of old BER item like cable, wire DBs, TPNDDBs, MCCBs, old fan, lights etc as per requirement of Branch. and keeping in the branch live in all respect. Vendor has to keep minimize 02 electrician for the branch till work is completed. All cable, loop cables if retained need to be properly arranged, tightening of cable lug to MCCBs poles and properly connections has to be made.	1		
29	Kit kat fuse unit (03) 200 A and 01 200 AMP copper Neutral link near main Energy meter & near generator set on suitable wooden board (porcelain kit-kat fuse unit)with connection etc.	1		
30	Supply installation testing and commissioning of 1*20watt Batten type tubular LED light fitting with LEDs, driver, diffuser, and housing complete in all respects in UPS room and record /wc/bath room /suitable place with complete in all respect with required color on need basis.	12		
31	Supply installation testing and commissioning of wall bracket oscillating body type fan 400 mm Complete in all respect at suitable place in B' hall complete in all respect.	10		

32	Supply installation testing and commissioning of square LED panel Full Lighting (2'x2') 40/36watt with glass /pvc With Al/ crca coated /steel coated body suitable For Armstrong / pop fitting complete in All respect. (full 2x2 Light)	27		
33	Supply installation testing and commissioning of <u>exhaust fan</u> heavy duty 300MM swipe and 1400 rpm with lovers and making of hole on wall of proper size with nut, bolts/brackets complete installation testing/ commissioning & connection with item No. Cement work etc. complete in all respect in UPS room.	2		
34	Supply and installation of 18 watt LED recessed mounted LED Down lighter with testing Commissioning complete in all respect.	16		
35	Supply of IP 20 protection flexible LED strip (5 meter roll) with suitable driver of minimum total wattage 48 W complete in all respects and of Bank desired colour.	10		
	<b>TOTAL</b>			