

Bill of Quantity (BoQ)

for

NIT No. IITG/IPM/NIT/R/2025-26/82 dated: 23.01.2026

Name of Work: Sub-main wiring for two (2) units of 10 kVA UPS systems (3-phase input, single-phase output), final circuit wiring, and installation of two (2) distribution boards at LAB 303, DX Block, Mechanical Engineering Department

Sl. No.	Description of Item	Unit	Qty.	Rate in Figure (in Rs.)	Rate in Words (Rs.)	Amount (Rs.)
1	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	mtr	100			
	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	mtr	50			
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	mtr	350			
2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
	16 A switch	nos	51			
	6 A switch	nos	2			
	6 pin 16 A socket outlet	nos	24			
	3 pin 6 A socket outlet	nos	83			
3	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.					
	3 Module (100mmX75mm)	nos	2			
4	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.					
	8 Module	nos	27			
	6 Module	nos	12			
5	Supplying and fixing 5A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	Triple pole and neutral	nos	4			
	Double pole	nos	2			
	Single pole	nos	36			
6	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
	25 mm	mtr	100			
7	Supplying, drawing, Installation, Testing and commissioning of CAT6 UTP LSZH 23AWG Twisted Pair Cable in existing conduit/ on surface, Category 6 Unshielded Twisted Pair, 4 pair should be complied as per UL/ETL verification program for compliance with ANSI/TIA-568.2-D standard. Outer diameter should be in the range of 6.1mm nominal with Operating Temperature Range : -5°C to +60°C, Bending Radius : < 4 X Cable Diameter at -5°C ± 1°C and Pulling Force: 11.5Kg etc. complete as required.					
	1 run of cable	nos	500			
8	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).					
	6 way (4 + 18), Double door	nos	2			
9	Supplying and fixing of computer point RJ-45 modular type in compatible box along with cover plate etc. complete make legrand or equivalent	nos	32			
10	Installation of 6U wall mount rack for housing LAN I/O port cables	nos	2			
11	Installation of 24 port patch panel along with punching of incoming LAN I/O port cables	nos	2			
12	Installation of 24/48 port switch	nos	2			
13	Connections of 1/2 mtr patch cords	nos	20			
14	Connections of RJ 45 to uplink cable	nos	32			
15	Supply and fixing of sheet steel MCB enclosure for 4 pole MCB	nos	2			
16	Supply and fixing of sheet steel MCB enclosure for 2 pole MCB	nos	2			
17	Supply and fixing of 25 mm PVC cassing	mtr	100			
TOTAL AMOUNT						
Discount@.....%, if any						
GRAND TOTAL AMOUNT						
(Rupees.....)						

N.B: Quoted rate should be inclusive of all Taxes.

Place:

Seal & Signature of Bidder