Department of Materials Science & Engineering Indian Institute of Technology Kanpur

Enquiry: MSE/VV/DMA/01 dated 07/01/2016 Closing Date: 18/01/2016 (up to 5 PM)

We are in process to procure a UPS (3 Phase input and 3 phase output) immediately. The details of the equipment such as specifications and accessories are as follows;

Minimum needs				
	1.1	General	Apparent power	10 KVA
	1.2		Battery Backup	30 minutes
	1.3		Тороlоду	Double-conversion
	1.4		Topology	Transformer based UPS
1	1.5		Topology	IGBT Rectifier and IGBT Inverter, Static switch on both Inverter and Bypass side with integrated Transformer based in standard UPS cabinet -
	1.6		System frequency	standard value : 50 Hz Option 60 Hz
	2.1	Input Characteristics	Native rated input voltages (with no additional auto-transformer)	380/400V
2	2.2		Phase to phase input voltage range	320 to 470V
	2.3		input power factor	> 0.95
	3.1	Output	Rated output voltage	Output voltage should be adjustable to 400V OR 415 V. We need L1, L2, L3, and N.PE. (5 Wire system)
	3.2	Characteristics	Output power factor	0.8
	3.3		total harmonic distortionTHDi	<3%/<5%
3			linear loads/non linear loads	
	3.4		Overload capability	150% <1 min 125% <10 min 100% continuous
	3.5		Isolation Transformer	Inbuilt in UPS at the Output
	4.1	Battery & Energy	Back up time	30MIN.
4	4.2	Storage	Battery Type , make & VAH	SMF(VRLA), Exide/Quanta/Rocket/Okaya, 10000VAH
	4.3		Cold start	Yes
5	5.1	Efficiency	Efficiency	>0.93%
	5.2		ECO mode	Yes
6	6.1	Bypass	Overload capability	150% 1 min 125% 10 min 100% continuous
	6.2		Short-circuit capability	10 In / 20ms
7	7.1	Mechanics & Design	IP level	IP20 as standard

You are requested to send us a quotation for the above mentioned item giving all technical information about model and crucial specifications and also all necessary accessories required for the items being quoted. Please mention the details. Batteries and battery cabinet should be of standard company and should be mentioned with the quotation. Warranty clause should be also clearly mentioned.

Please send the technical and price bids in separate sealed envelopes.

The quotation in a sealed envelope, in all its completeness, should reach us by January 18, 2016 (BEFORE 5 PM) at following address:

Dr Vivek Verma Department of Material Science & Engineering Indian Institute of Technology Kanpur Kanpur 208 016 Email: vverma@iitk.ac.in