IISER Mohali is inviting quotes for 20KVA UPSs for various clean-room equipments

Please send the envelope to:

Asst Registrar Purchase Section,

Address: IISER Mohali, Knowledge city,

Sector 81, SAS Nagar, Manauli PO 140306

Telefax : 2240266, 2240124

All quotes must reach by specified date and time as mentioned in the document provided by Stores and Purchase section. Certain couriers (like Professional Courier) do not deliver at our site. We will not be held responsible for any courier or postal delays. Quotes can be sent by email also to the following address: stores@iisermohali.ac.in mukeshkr@iisermohali.ac.in

Given below are general specifications for the UPSs required:

Please provide a compliance sheet and other data requested.

UPS FOR Cleanroom Equipment I (20KVA)

SPECIFICATIONS FOR 20 KVA ONLINE U.P.S. SYSTEM		
1. Automatic switchover to mains or alternate UPS on failure of UPS.		
2. Manual switchover to mains or alternate UPS for servicing.		
PARAMETER	REQUIRED SPECIFICA-TION	OFFERED SPECIFICATION
3. Topology	True Online Double Conversion Power Recreation	
4. Isolation	Regenerated Output Neutral for Galvanic Isolation between Mains and Load	
5. Rectifier Design	Fully Controlled	
6. Charger Design	Low Ripple CVCC Battery Charging	
7. Inverter Design	Advanced Sine-weighted High Frequency PWM using IGBT with Instantaneous Sine-wave Control	
8. Duty	Continuous Operation.	
9. INPUT		
a) Voltage Range	340 to 470 V, Three Phase	

b) Frequency Range	47 to 53 Hz	
c) Input Phase Sequence Reversal	UPS should keep working normally without draining the batteries	
10. OUTPUT		
a) Power Rating	20 KVA / 20 KW, 400 V, 3 Phase	
b) Output Current	Continuous Output Current = 29 A Per Phase	
c) Voltage Regulation	± 1%	
d) Frequency	50 Hz ± 0.05% Crystal Controlled	
e) Waveform	Sine Wave	
f) Harmonic Distortion	Less than 2% on linear load	
g) Power Factor	Unity to 0.7 lag within specified power ratings	
h) Load Crest Factor	3:1 without derating	
i) Overload Rating	125% for 10 minutes 150% for 1 minute 400% for 10 milliseconds If 400% is not achievable in the UPS model provide higher rating of the UPS to compensate for the same.	Specify Output Current @ 400 V and 125% load: Specify Output Current @ 400 V and 150% load : Specify Output Current @ 400 V and 400% load :
PARAMETER	REQUIRED SPECIFICATION	OFFERED SPECIFICATION
11. BATTERY		
a) Type	Sealed Lead Acid Maintenance Free	

b) Back-up Time	30 Minutes on full load. Battery Required : For 20 KVA /20KW UPS : 22000 VAh Minimum	Specify No. Of Batteries : Specify Voltage of Each Battery : Ampere-Hour Rating of Each Battery :		
c) Battery Installation	For Safety of the user, either the batteries should be built-in OR external Powder-coated battery cabinet should be supplied. There shall be a suitable Battery MCB / MCCB / Protection in addition to protection inside the UPS			
12. PROTECTIONS				
a) Input Over Current	Input Under/ Over Voltage	Output Under/ Over Voltage		
b) Over Temperature	Battery Under/ Over Voltage	Output Overload & Short Circuit		
13. ENVIRONMENTAL				
a) Operating Temperature	0 to 45 deg C (50 deg C Peak)			
b) Relative Humidity	Upto 95% Non-condensing			
c) Audible Noise	< 55 dB at 1 metre			
d) Ingress Protection	IP 20 for UPS IP 10 for Battery Cabinet			
e) Cooling	Forced Air Cooling			
14. ONSITE WARRANTY				
a) For UPS	5 years Minimum			
b) For Battery	5 years Minimum			
15. Size of the UPS should be such that 5 such UPSs can be accommodated in 180 sq feet area.				

Selection criteria

1. Give details of the no. of units of the same/higher rating sold & maintained before (Around 8-10 Units) along with customer references with contact details. References must be for the UPS installed for laboratory equipments like high power magnets, cryostats, high power chillers etc. and at least two should be from research institutes in Chandigarh Mohali area and others can be from New delhi or other areas.

2. Specify realistic delivery time (Typically must be less than 4 weeks) At-least two units must be delivered in 3-4 weeks and third in 4-6 week time.

3. Vendors who have failed to supply the UPSs in past on time and delayed the projects will be summarily disqualified.

Terms and conditions

1. Vendor must completely install the system and send a service engineer to the site within three days of time when the major equipments are going to be connected to the UPS.

2. 50% amount of the supply value will be paid in net 30 terms after installation.

3. 50% will be held up to 3 months for checking of the performance of the UPSs. Any malfunctions or tripping problems must be fixed to receive the balance amount of 50% in net30 terms.

4. In case of failure to fix the system immediately, if it is malfunctioning, within the trial period in a satisfactory manner, we will ask for refund after returning the UPS.

5. The committee may use the supplied information to accept or reject bids. Technical Committee's decision is final in accepting or rejecting bids.

6. By participating all companies have agreed to the terms and conditions.