



भारतीय प्रौद्योगिकी संस्थान कानपुर  
INDIAN INSTITUTE OF TECHNOLOGY KANPUR  
संगणक केन्द्र  
COMPUTER CENTRE

पत्रालय-आई.आई.टी.कानपुर-208016(भारत)  
P.O.-I.I.T. KANPUR - 208 016 (India)


CC/IITK/09/415  
August 16, 2017

Sealed quotations are invited for the following items.

Sr. No.	Item Description	Qty
1	1 KVA ONLINE UPS with Battery backup (Technical Specification attached)	25

**Note:**

1. All quotations must reach undersign by 08/09/2017, 5.00 p.m..
2. Quotation must be valid till 31/12/2017
3. Quotation shall be submitted in two parts.
  - Part-I (Technical) should contain all technical details and specification of the offered UPS along with technical compliance sheet, Battery details (like make, AH, total number, alongwith catalogue), warranty and applicable tax rate (like GST etc.). All terms and conditions shall be part of Technical bid.
  - Part-II (Financial) should contain the price of the offered UPS. The price should not be quoted in the technical bid else the bid will be taken as unresponsive.
4. **Warranty: three year on UPS and battery.**
5. The vendor (if not OEM) should have valid authorization for this tender enquiry from the OEM.
6. Payment terms: 90% on delivery and 10% after satisfactory installation.

  
(Dr. Y.N. Singh)

## Technical Specification of online 1 KVA UPS

Quantity-25

Features	Specification
<b>UPS Capacity</b>	<b>1kVA online UPS</b>
Technology	IGBT Based Rectifier
<b>Input</b>	Single phase, 3-pin (Live, Neutral, Earth)
Voltage Range	110 - 300 VAC (based on load percentage)
Frequency Range	47.5 to 52.5 Hz
Power Factor	0.99
<b>Output</b>	Single phase, 3-pin (Live, Neutral, Earth)
Voltage	230 VAC
Voltage Regulation	+/- 1%
Frequency (Free Running Mode)	50 Hz $\pm$ 0.1 Hz (Free running mode)
Frequency (Synchronisation Mode)	47.5 to 52.5 Hz
Harmonic Distortion (THD)	$\leq$ 3% (linear load) $\leq$ 5% (non-linear load)
Output Waveform	Sine wave
Crest Factor	3:1
Efficiency (AC - AC)	90%
Power Factor	0.8
Overload	110% for 10 minutes 130% for 1 minute
<b>Battery</b>	
Battery	3x65AH, 12 V Sealed Lead Acid Maintenance Free
Battery Weight	Minimum Weight 20 kg/battery
DC Voltage	36 VDC
<b>General</b>	
Protection	Input and Output Over and Under Voltage, Output Overload, Output Short Circuit, Battery Low Trip etc and IP20. If the UPS shuts down after permissible or deep discharge, it should switch on automatically after mains power restoration and
Operating Temperature	0 to 40 Deg. C
Display & Indication	LCD display
Status LED	Normal mode/Load on battery/Load on bypass/System fault
Audible Alarm	Mains Failure alarm, Low Battery Alarm, Overload, Fault and Bypass mode
Output Terminal	4x6A (Indian Type )
Bypass	Required
Maintenance Bypass	Required
Communication Interface	SNMP (RJ45 Ethernet Port)
SNMP	For UPS monitoring and scheduling events using Integrated Scheduler for battery discharge and output control.
Standard	IEC 62040 - 1 Safety IEC 62040 - 2 (EMI / EMC)
Certifications	CE, RoHS, BIS,14001 and OHSAS 18001
Enclosure	M.S. Powder Coated with Wheels
Manufacturing	UPS should be manufactured in India (Factory address and other proof required).
Service Centre	Service centre should be in Kanpur
Warranty	36 Month on UPS and Battery (Every Battery pack should contain 3 years warranty card of the battery OEM)
<b>(Note- Hard copy of Product Brochures must be attached along with technical bid)</b>	