

Department of Computer Science and Automation, Indian Institute of Science seeks quotes for UPS system with the following specifications.

### **Specification for ONLINE UPS**

1. Output capacity : **30 KVA with 1 Hour backup**  
Technology : DSP Controlled,  
IGBT based PWM converter
2. Converter :  
AC INPUT : **Three phase**  
Voltage range : -20% + 15%  
Frequency : 50 Hz  
Frequency variation : + - 3 Hz  
Input Power factor : > 0.97 from 50% load to 100% load.  
Harmonic current : < 5%
3. INVERTER :  
AC OUTPUT : **Three Phase (Unbalanced), 3Ph + Neutral**  
Rating : Continuous  
Technology : DSP Controlled, IGBT based PWM converter  
Voltage : 230V  
Regulation : + - 1%  
Frequency : 50 Hz  
Inverter efficiency : Better than 90%  
Waveform : Sine Wave  
Distortion : < 2%  
Transient Voltage variation : + - 5V  
Transient Recovery : Within 1 or 2 Cycles  
Rated Power Factor : 0.8  
Overload Capacity : 120% for 10 Mins, 150% for 60 Secs  
Cooling : Forced Air  
**Isolation** : Galvanic Isolation has to be provided with a built in K-13 rated isolation Transformer at the O/P of Inverter.  
Total Harmonic Distortion : < 5%
4. Battery with **Wooden stand** :  
Type : **Exide Tubular EL 100AH**  
DC Bus bar Voltage : 360V DC  
Charger : Suitable for Exide Tubular battery
5. Monitoring : I/P AC Voltage  
O/P AC Voltage & Current  
DC Battery Voltage & Current  
Audio Alarm : Buzzer for battery low, Indicator Lamps  
Mains ON, Output ON, Inverter ON,  
Battery low, Inverter overload,  
Inverter trip.
6. Protections : Output over Voltage Trip  
Output Overload/Short Circuit trip  
Battery short by HRC Fuse  
Charger Overload Trip  
Battery Low

7. Bypass : Manual Bypass has to be provided

8. Warranty: 3 years

**Note:** Strictly better specification will also be considered.

### **Terms & Conditions**

- The quotes should be submitted in sealed covers.
- The deadline for submission of proposals quotes is 6<sup>th</sup> December 12 noon.
- ISO certification of the product should be must.
- Quotes should include AMC for 3 years and the price should be mentioned separately.
- Quotes can mention the price for two quantities (separately) and based on the availability of funds department will place an order for either one or two quantities.
- The sealed covers should be submitted to the following address:

Department of Computer Science and Automation

Indian Institute of Science,

Bangalore 560012.

Phone: 080 22933201

Email: office.csa@iisc.ac.in