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: 20 KVA with 1 Hour backup**
   Technology: IGBT based On Line, Dual Conversion, in-built Output Isolation Transformer, DSP based Control

2. **Converter:**
   - AC Input: **Three Phase**
   - Voltage range: -20% +15%
   - Frequency: 50 Hz
   - Frequency variation: + - 3Hz
   - Input Power factor: > 0.97 from 50% load to 100% load.
   - Harmonic current :<5%

3. **Inverter:**
   - AC output: **Single Phase**
   - Rating: Continuous
   - Technology: DSP Controlled, IGBT based PWM converter
   - Voltage: 230 V
   - Regulation: + -1%
   - Frequency: 50Hz
   - Inverter efficiency: Better than 90%
   - Waveform: SineWave
   - 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
   - **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%
Battery with I/C cables:
   Type: Exide Tubular 6EL100
   DC Busbar Voltage : 360VDC
   Charger: Suitable for Exide Tubular battery
   Number of Batteries: 30

4. 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.

5. Protections: Output over Voltage Trip
   Output Overload/Short Circuit trip Battery short by HRC Fuse Charger
   Overload Trip
   Battery Low

6. Bypass: Manual Bypass has to be provided
7. Warranty: 3 years

Note: Strictly better specification will also be considered.
Terms & Conditions

- The product should be ISO certified
- The quotes should be submitted in sealed covers.
- The deadline for submission of proposals quotes is 31st March 2022 before 12 noon.
- Quotes can mention the price for one and for two quantities (separately) and based on the availability of funds department will place an order for either one or two quantities.
- Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
- The quotations should be on FOR-IISc Bangalore basis in INR only. You may quote the reference as: CSA/CB/204 Dt: 03.03.2022
- You may submit your quotations through email also.
- The sealed covers should be submitted to the following address:

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Indian Institute of Science,
Bangalore 560012.
Phone: 080 22933201
Email: office.csa@iisc.ac.in