2. Technical Specifications

2.1 UPS: 1100VA OR 1.1 kVA

- 1.1 kVA with inbuilt battery (No Installation required)

2.2 UPS: 3 kVA with inbuilt isolation transformer with 6 Nos. of Sealed Maintenance Free Batteries (12V, 65 AH - 6 Nos. in a set) with battery mount rack with cable accessories.

Details requirements are given below:

Output	
Output power capacity	2.4 KWatts /3.0 kVA
Max Configurable Power (Watts)	2.4 KWatts /3.0 kVA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 220:230 or 240 nominal output voltage
Efficiency at Full Load	93.00%
Output Voltage Distortion	Less than 3%
Output Frequency (sync to mains)	50/60Hz +/- 3 Hz
Output Frequency (not synced)	60Hz +/- 0.1% for 60Hz nominal, 50Hz +/- 0.1% for 50Hz nominal
Other Output Voltages	220, 240
Load Crest Factor	3:1
Topology	Double Conversion Online
Waveform type	Sine wave
Output Connections	(1) Hard Wire 3-wire (H N + G) (Battery Backup)
	(2) IEC 320 C13 (Battery Backup)
Output Voltage THD	< 3% linear load
Transfer Time	4ms typical
Bypass	Built-in Bypass
Input	
Nominal Input Voltage	230V

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Input frequency	40 - 70 Hz
Input Connections	Hard Wire 3 wire (1PH+N+G)
Input voltage range for main operations	140 - 280V
Efficiency at Full Load	93.00%
Batteries & Runtime	
Battery type	No internal battery - uses external battery system
Replacement battery cartridge note	72V, SMF or Flooded battery compatible, internal charger 2A - 13A programmable
Communications & Management	
Control panel	Multi-function LCD status and control console
Audible Alarm	Audible and visible alarms prioritized by severity
Emergency Power Off (EPO)	Yes
Remote Management Capability	Yes
Surge Protection and Filtering	
Filtering	Full-time multi-pole noise filtering: 0.3% IEEE surge let-through: zero clamping response time: meets UL 1449
Environmental	
Operating Temperature	0 - 40 °C
Operating Relative Humidity	0 - 95 %
Operating Elevation	0-3000 meters
Storage Temperature	0 - 45 °C
Storage Relative Humidity	0 - 95 %
Storage Elevation	0-4500 meters
Audible noise at 1 meter from the surface of the unit	55.0dBA
Conformance	
Standard warranty	one years
Cost includes	Batteries, RACK & installation cost
Preferred Brand	APC/Numeric/Emerson

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2.3 UPS: 6kVA with inbuilt isolation transformer with 6 Nos. of Sealed Maintenance Free Batteries (12V, 100AH-16 Nos. in a set) with battery mount rack with cable accessories.

Details requirements are mentioned below:

Output	
Output power capacity	5.4 KWatts / 6.0 kVA
Max Configurable Power (Watts)	5.4 KWatts / 6.0 kVA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 220:230 or 240 nominal output voltage
Output Voltage Distortion	Less than 5%
Other Output Voltages	220, 240
Topology	Double Conversion Online
Waveform type	Sine wave
Output Connections	(1) Hard Wire 3-wire (H N + G) (Battery Backup)
Bypass	Built-in Static Bypass
Input	
Nominal Input Voltage	230V
Input frequency	40 - 70 Hz (auto sensing)
Input Connections	Hard Wire 3-wire
Input voltage range for main operations	160 - 285V
Efficiency at Full Load	93.00%
Communications & Management	
Control Panel	Multi-function LCD status and control console
Audible Alarm	Audible and visible alarms prioritized by severity
Emergency Power Off (EPO)	Yes
Remote Management Capability	Yes
Batteries & Runtime	
Battery type	No internal battery - uses external battery system
Surge Protection and Filtering	
Surge energy rating	480Joules

Filtering	Full-time multi-pole noise filtering; 0.3% IEEE surge let-through: zero clamping response time: meets UL 1449
Environmental	
Operating Temperature	0 - 40 °C
Operating Relative Humidity	0 - 95 %
Operating Elevation	0-900meters
Audible noise at 1 meter from the surface of the unit	55.0dBA
Conformance	
Standard warranty	1 year. However, the Bank may consider 3 years as AMC for repair or replace option.
Cost includes	Batteries, RACK & installation cost
Prefer Brand	APC/Numeric/Emerson

Notes:

- The technical specifications are important and the Bank reserves the right to reject if the technical specifications are not met. Therefore, all technical specifications are mandatory.
- The bidders are requested to submit the catalogue of the above specifications as the reference point. ***Failure to submit the catalogue along with the bid document shall be rejected.***

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