

**Department of Nanoscience and Nanotechnology,  
University of Kerala,  
Kariavattom, Thiruvananthapuram-695581  
Phone No. 0471 2308863  
Quotation Notice**

No. KU/DNST/QN- 02/2020-21

Quotations are invited for the supply of one Number of 5KVA online UPS with the following specifications.

<b>1. 5 KVA ONLINE UPS</b>	
Capacity:	5KVA
Technology:	True online IGBT based technology
<b>INPUT</b>	
Nominal voltage:	220VAC/230VAC
Operating voltage range:	160V-270V
Operating frequency range:	50Hz ± 0.5Hz
Power factor:	0.9
<b>OUTPUT</b>	
Inverter:	IGBT based PWM technology with pure sinewave output
Output voltage:	200-250V ± 1%
AC voltage Reg. (Batt. Mode)	± 1%
Frequency range:	50Hz ± 0.5 Hz
Crest factor:	3:1 (max)
Total harmonic distortion:	<3% (linear load), <5% (nonlinear load)
Overload capability:	yes
Power factor:	0.9
Isolation transformer:	Inbuilt@output, Inbuilt@input
<b>EFFICIENCY at full load</b>	
Overall efficiency:	Above 80%
Inverter efficiency:	90%
<b>DISPLAY and INDICATORS</b>	AC voltage (INPUT/OUTPUT) Output current Output watts DC voltage  Mains on Battery LOW Over load Trip, bypass
<b>ALARM</b>	Battery low, Output overload&short circuit
<b>ENVIRONMENT</b>	
Temperature:	5°C – 55°C
Operational humidity:	Up to 85% RH (Non condensing)
Noise Level:	<60db at 1 meter
<b>PROTECTION</b>	RF filter at output MCB at EB input Snubber circuit across all semiconductors Glass cartridge fuse on control circuits MCB at input panel

	Surge protector at panel input&EB input PV reverse polarity, input low & high voltage, output low&high voltage cut off
<b>CERTIFICATIONS</b>	ISO 9001:2015, ISO 14001:2015, ROHS
<b>WARRANTY</b>	5 years comprehensive for UPS
<b>2. BATTERY</b>	
<b>Brand and capacity</b>	AMARON/EXIDE/other leading brand make tubular battery for 1 hr.back
<b>Warranty:</b>	With 4 year replacement warranty
<b>3. BATTERY RACK</b>	

GENERAL INSTRUCTIONS:-

1. Incomplete & conditional quotations and quotations received after the due date will be summarily rejected without assigning any reasons thereof.
2. The price should be inclusive of all taxes, duties, transportation, installation etc. Nothing extra will be paid in addition to the quoted rate.
3. Payment Terms: 100% payment after supply and successful demonstration of the working of the equipment.
4. Validity of quotation: Quotation submitted shall remain valid at least for 90 days from the date of opening the quotation.
5. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation should be made at the Department of Nanoscience and Nanotechnology, University of Kerala, Kariavattom campus, Trivandrum- 695581, without any extra cost.
6. Service facility: Supplier should mention their details of service setup and manpower in Trivandrum who are responsible for after sales support.
7. The model number, make, and a printed literature of the product shall be submitted positively.
8. Vendors should provide a list of institutes showing installations of such instruments in India with contact numbers.

Sealed quotations should reach the "Head-in-charge, Department of Nanoscience and Nanotechnology, University of Kerala, Kariavattom, Thiruvananthapuram-695581" on or before 02/03/2021, 3:00 PM. Date of opening 02/03/2021, 3:00 PM.

16/02/2021

S/d  
Head-in-charge