



**Advanced Centre for Materials Science**  
**Indian Institute Of Technology Kanpur**  
**Kanpur-208016, U.P.**

Enquiry No.: ACMS/XRD/2017/01

Opening date: 3<sup>rd</sup> Feb, 2017  
Closing date: 18<sup>th</sup> Feb, 2017

**Subject: Enquiry of online 15kVA/12kW UPS without battery**

We are interested in purchase of a **15kVA/12kW online UPS without battery** of the technical specifications enumerated below. Our organization is an educational institute of repute and liable to get educational discount from the manufacturer/supplier. **Please send separate budgetary and financial quotes on following address.**

Dr. N. P. Gurao  
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Advanced Centre for Materials Science (ACMS) Room No. 106  
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**Technical Specification**

<b>Features</b>		<b>Specification</b>
<b>Input</b>	Phase	3 phase and wires & ground
	Rated Voltage	415 VAC
	Voltage Range	304~478VAC
	Frequency Range	48~52Hz
	Power Factor	$\geq 0.99$
	Bypass Voltage Range	Max. voltage: $\pm 15\%$ Min. voltage: $-45\%$ Frequency protection range $\pm 10\%$
	Current Harmonic	$\geq 5\%$ (100% non linear load)
<b>Output</b>	Phase	Single phase & Ground
	Rated Voltage	230VAC
	Power Factor	$\geq 0.8$
	Voltage Precision	$\pm 2\%$

	Output Frequency	(50 ± 0.2) Hz
	Crest Factor	3:01
	Transfer Time	Utility to battery ≤ 2ms Utility to bypass ≤ 2ms
	Overload Capacity	Load ≥ 110%, 60 min, ≥ 125%, last 10min, ≥ 150% last 1 min, ≥ 150% Shut down UPS immediately
	THD	≥ 2%
<b>Efficiency</b>		98%
<b>Battery</b>		Compatible upto 80Ah, 32 No., 12V
<b>Communication Interface</b>		RS232/any standard port
<b>Noise Level</b>		<55dB
<b>Operating Environment</b>	Temperature	0° C ~ 40° C
	Humidity	0 ~ 95% non condensing
	Storage temperature	025° C ~ 55° C
<b>Industry Standard</b>		CE, EN / IEC 62040-2, EN / IEC 62040-1-1

Note:-

1. Your quotation shall contain Authorization Letter from manufacturer.
2. Quotation must be valid for minimum of 60 days.
3. Delivery period should not be more than 2 weeks and delivery should be at IIT Kanpur. The Penalty @1% per week or part thereof subject to max 10% of the delivery price will be deducted from the balance payment, if supply is not completed within stipulated period.
4. Send complete detail of the product(s).
5. Payments terms: 90% on installation and 10% on satisfactory report.
6. Price must include all taxes and charges (including delivery, installation etc.)
7. IITK is exempted from custom duty and road permit.
8. All prices are to be for IIT Kanpur.
9. The Institute reserves the right of accepting and rejecting any quotations without assigning any reason.

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