

Sealed Quotation (Technical & Commercial, separately) must reach to us till 15.08.2015 before 5.00PM and should be sent to Prof. Kamal K. Kar, Department of Mechanical Engineering, Room # ACMS 203D, IIT-Kanpur, 208016 against the enquiry letter numbered ME /KKK/01/2015-16 Dated: July 30, 2015.

Dear Sir/Madam:

Quotations (Technical & Commercial, separately) are invited for purchase of "QUOTATION FOR ONLINE 20KVA UPS" having following specifications:

**Specifications and conditions:**

Feature	Specifications.
Capacity	20 kVA Online
Technology	IGBT Based DSP controlled Rectifier
Input Voltage	415±20%V AC, 3-phase 4 wire
Input Frequency Range	50 Hz±10%
Input Power Factor	>0.98
Output Voltage	230V AC ±1% Single Phase
Output Frequency	50 Hz
Output Power factor	0.98 to Unity
Output Wave form	PWM Sine Wave
Isolation	Inbuilt Output Isolation Transformer
Protection	Input and Output over voltage and under voltage, Output Overload, output short circuit, battery Low trip etc. If the UPS shuts down after permissible or deep discharge, it should switch On automatically after mains power restoration.
Indications	Input: Voltage & Current, Mains On, Inverter On, Battery low, over load, Output: Voltage, Current, frequency, power, and load etc.
Alarm	Mains fail, battery low, Trip Condition etc.
LCD Display	Input Voltage, output Voltage, Output Current, Battery charge etc.
Batteries	12 volts Lead acid Sealed Maintenance free batteries, Preferably battery makes: Exide, Quanta.
Backup	30 Minutes on Full Load. VAH Should be minimum (10000Ah)
Bypass	Automatic Static Bypass Switch
Remote Monitoring	SNMP support
Ambient Temperature	0-50°C
Enclosure	MS Powder coated with caster wheels for UPS and batteries
Warranty	3 Years for UPS and batteries
Over load capacity	125% for 10 minutes
Noise level	<55dB @ 1meter
Harmonic distortion	< 2% (Linear Load), ≤5% ( Non-Linear Load)
Efficiency	>90% at full load
Communication Interface	USB port for software interface
Quantity	One

1. Prices should be FOB (your international airport), CIP New Delhi, and IIT-Kanpur including Packing and Forwarding, Insurance and freight.

2. Prices should include the installation cost.
3. Warranty should at least be for three years after installation.
4. Validity of quotation should be at least for 90 days.
5. Maximum educational discount
6. Any other charges from your side.
7. User list of this equipment from IIT Kanpur (please give complete address), must
8. Proprietary certificate, if any
9. Authorization letter from your principal
10. Agency commission, if any

You will be informed accordingly by appropriate authorities if your bid is accepted. Please do not make unnecessary and unsolicited phone calls and emails (except to seek a clarification for the tender), you will be contacted as per need.

Kindly mention **ME /KKK/01/2015-16 Dated: July 15, 2015** on sealed envelope carrying quotation and printed literature and send your best offer (Technical & Commercial, separately) so as to reach us on or before August 15, 2015 to the following address-

Prof. Kamal K. Kar,  
Department of Mechanical Engineering  
Room # 203 ACMS  
IIT Kanpur - 208016 India,

Email: kamalkk@iitk.ac.in