

**DEPARTMENT OF CHEMISTRY**  
**&**  
**CENTRE OF ADVANCE STUDIES IN CHEMISTRY**  
**PANJAB UNIVERSITY CHANDIGARH –160014 (INDIA)**

Please send the quotations in 'two bid system' so as to reach the undersigned by 11.09.2018.

- Technical bid consisting of all technical details along with commercial terms and conditions.
  - Financial bid indicating items-wise price for the items mentioned in the technical bid.
  - Also send 2% cost of the Instrument as EMD (in the form of Demand Draft) quoted on the Quotation if the amount exceed Rs.50,000/-.
  - The technical bid, financial bid and EMD should be sealed by the bidder in separate cover duly super scribed and all three sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed to reach on or before.
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**Other terms and conditions**

1. The quality, make, packing and other particulars of each item should clearly be stated/indicated in your quotation.
2. It should clearly be stated whether the rates are inclusive / exclusive of GST etc.
3. The rates of INSURANCE if any should be specified. The firm will be required to submit original payees receipt along with bill. NO PAYMENT OF INSURANCE CHARGES IS PERMISSIBLE UNLESS THESE REQUIREMENTS ARE COPLIED WITH.
4. THE QUOTATION SHOULD ALWAYS BE SUBMITTED IN DUPLICATE.
5. Please quote only for the items available in 'READY STOCK.'
6. Please quote only for the make required and strictly according to the specifications etc.
7. Please also indicate the DISCOUNT separately, if any.
8. While submitting the quotation please write on the OUTER ENVELOPE, 'QUOTATIONS TO BE OPENED ON 12.09.2018' and the envelope be put in another envelope address to **Dr. Jyoti Agarwal, Investigator Incharge Scheme, Department of Chemistry, Panjab University, Chandigarh – 160014**
9. Please send the quotation by post along with manufacturer/distributor certificate.

**Note:**

It is for the information of all the departments that in terms of the government of India, notification no. 47/2017 integrated Tax (Rate) dated 14.11.2017 and P.U. Notification dt. 23/01/2018, the applicable Integrated Tax (Rate) under GST Act 2017 on goods procured for Scientific and research purpose shall be 5%. You are requested to charge the GST @5% in compliance to the aforesaid notification.

## Specification for 2 KVA UPS System

| Description                    | Specification   |
|--------------------------------|---|
| <b>Technology</b>              | True On Line UPS with double conversion,PWM technology  |
|                                | Rectifier and inverter should be based on IGBT  |
| Power Rating                   | 2000 VA / 1600 W  |
| <b>Input</b>                   |   |
| Voltage Range                  | 110 VAC – 300 VAC @ 100% Load   |
| Frequency                      | 50 Hz/60 Hz ± 10%   |
| Power Factor                   | ≥ 0.99  |
| <b>Output</b>                  |   |
| Voltage Range                  | 220/230/240 VAC ± 1%  |
| Voltage Distortion             | ≤ 2% (Linear Load)<br>≤ 5% (non Linear Load)  |
| Frequency                      | 50 Hz/60 Hz ±1~10%  |
| Power Factor                   | 0.8   |
| Crest Factor                   | 3:1   |
| By Pass                        | Static By Pass should be available.   |
| OVERLOAD CAPABILITY            | <=125% FOR 10MIN, >125-150% FOR 1 MINUTE AND  |
| <b>Battery</b>                 |   |
| Type                           | Sealed Maintenance Free, Valve Regulated Lead Acid  |
| Backup Time                    | 60 minute   |
| <b>Environmental and Other</b> |   |
| Audible Noise                  | Less than 45dB at 1 meter   |
| Operating temp & Humidity      | 0 – 95%RH @ 0 – 45°C (non condensing)   |
| LCD Display                    | UPS Status, Load level, Battery level, Input / Output voltage, Discharge Timer & Fault conditions |
| Management                     |   |
| SMART RS 232                   | Supports Windows, Novell, Linux and FreeBSD   |
| USB Port                       |   |
| SNMP                           | Power Management from SNMP manager and web browser option should be present                       |
| ECO Mode                       | Should be capable of operating in ECO mode for energy saving.                                     |
|                                |   |
| <b>Credentials</b>             | Manufacturer Should be ISO 9001:2000 certified  |
|                                | Manufacturer Should be ISO 14001 certified  |
|                                | OHSAS18001 ,ISO 27001,BIS , RoHS  |