THE QUOTATION MUST BE SENT IN A SEALED COVER SUPERSCRIBED
WITH OUR REFERENCE NO. & DUE DATE.

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INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS, NEW DELHI-110016

DATE: 12.09.2011
DUE DATE: 26.09.2011

NOTICE INVITING QUOTATION

Ref: NIQ/UPS/2011

Sir/Madam,

Please send your quotation to the undersigned in a sealed cover superscribed with our Reference No. &
Due date for the following articles:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of article &amp; full specification</th>
<th>Numbers</th>
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<tbody>
<tr>
<td>1.</td>
<td>A compact UPS is to be connected with an Ultra High Vacuum X-ray Photoelectron Spectrometer. The system utilizes a 3-phase, 5 wire power system (Y wiring, Y point grounded) protected by breaker switch. Each individual line has to be protected by fuse or breaker. (i) DIMENSIONS: The typical dimensions of the main unit (excluding batteries) of the UPS must NOT exceed 80 cm (length) x 30 cm (width) x 50 cm (height). (ii) UPS RATING: 20 KVA, 3 Phase Input, 3 Phase Output (iii) TOPOLOGY: True Double Conversion; On Line; Full Microprocessor Control (iv) INPUT Voltage Range: 355-495 V AC, 3 Phase; Frequency: 47-53 Hz Protection: Circuit breaker, RFI filter; Input PF: 0.96 (v) OUTPUT Voltage: (a) 3 Separate 3 Phase 380 VAC, 16A, 50Hz Lines (b) 2 Separate 1 Phase 230 VAC, 16A, 50Hz Isolation: Output Isolation Transformer (preferable but not necessary) Regulation at Nominal Input: ±1% Overall Efficiency: &gt; 90% Frequency Tracking Range: +/- 1, 2, 3 Hz Selectable Over load: 125% for 10 Mins.; 150% for 30 Secs.;1000% for 1 Cycle Load Power factor: 0.8 Wave form: Sine wave Total Harmonic Distortion (THD): Less than 2% (at Linear Load) Crest Factor: 3:1 Protection: Overload, Short circuit, Battery low voltage, high temperature, Output high /low Voltage. Transient response on 100% Load Change: ±2%</td>
<td>One</td>
</tr>
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</table>
(vi) BATTERIES
Type: Sealed Maintenance Free Lead Acid (SMF)
For 30 minutes backup- Min. VAH Required - 16000 VAH
Location: External with stand and Connecting cables
Make of the batteries should be clearly specified
(vii) ENVIRONMENT
Ambient Temperature
Operating: -10 to 40°C; Storage: -20 to 60°C
Relative Humidity: 95% Max

A compliance chart listing all the specifications should be prepared and submitted along with the technical bid.

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS
1. DELIVERY:
   The rates quoted must be for C.I.F. Delhi
2. TERMS OF PAYMENT:
   Letter of credit or other approved mode of payment
3. INSTITUTE’S RIGHTS:
   IIT Delhi reserves the rights of acceptance or rejection of any or all quotations. The discretion for increasing or decreasing of the quantities demanded also vests with the institute.
4. VALIDITY OF QUOTATIONS:
   Quotations should be valid at least for a period of 3 months.
5. CORRESPONDENCE:
   No correspondence regarding acceptance/rejection of a quotation will be entertained.
6. SUBMISSION OF QUOTATIONS:
   Quotations should be sent in a sealed cover marked at the top OUR N.I.Q. REFERENCE AND DUE DATE as otherwise these would not be considered. The technical and financial bids should be sealed in separate envelopes before putting them together in the sealed cover. Quotations should be sent to:
   Prof. Pankaj Srivastava
   Department of Physics
   IIT Delhi, Hauz Khas,
   New Delhi 110 016 (India).
7. REJECTION:
   Quotation not conforming to the set procedure as above will be rejected.
8. DISCOUNT/REBATES:
   Special discount/rebate wherever admissible keeping in view that the supplies are being made for educational purpose in respect of public institution of national importance may please be indicated.

Pankaj Srivastava
Department of Physics
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