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

Phone: +91-11-26596558 Fax : +91-11-26581114 E-mail :pankajs@physics.iitd.ernet.in

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:

S.No.	Name of article & full specification	Numbers]·.
1.	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.	One	
	 (i) DIMENSIONS: The typical dimensions of the main unit (excluding batteries) of the UPS must NOT exceed 80 cm (length) × 30 cm (width) × 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% 		
	Regulation at Roman Input: ± 1%Overall Efficiency: > 90 %Frequency Tracking Range: +/- 1, 2, 3 Hz SelectableOver load: 125% for 10 Mins.; 150% for 30 Secs.;1000% for 1CycleLoad Power factor: 0.8Wave form: Sine waveTotal Harmonic Distortion (THD): Less than 2% (at LinearLoad)Crest Factor: 3:1Protection: Overload, Short circuit, Battery low voltage, hightemperature, Output high /low Voltage.Transient response on 100% Load Change: ± 2%		

(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:

2. TERMS OF PAYMENT:

3. INSTITUTE'S RIGHTS:

4. VALIDITY OF QUOTATIONS: 5. CORRESPONDENCE:

decreasing of the quantities demanded also vests with the institute. Quotations should be valid at least for a period of 3 months. No correspondence regarding acceptance/rejection of a quotation will be entertained.

The rates quoted must be for C.I.F. Delhi

Letter of credit or other approved mode of payment

any or all quotations. The discretion for increasing or

IIT Delhi reserves the rights of acceptance or rejection of

6. SUBMISSION OF QUOTATIONS: Quotations should be sent in a sealed cover marked at the top OUR N.I.O. 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).

Quotation not conforming to the set procedure as above will be rejected.

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** IIT DELHI, HAUZ KHAS **NEW DELHI-110016 INDIA**

7. REJECTION:

8. DISCOUNT/REBATES: