

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

No. IITD/PLN03/ BCHM

Dated: 25/10/2013

NOTICE INVITING QUOTATIONS

Sub: Purchase of Two 30 KVA online UPS Systems

Sealed quotations in separate envelopes of technical and commercial bid kept in one sealed outer envelope are invited for purchase of two 30 KVA online UPS (Uninterrupted Power Supply) systems as per specifications given below. The technical specifications should include a compliance statement with regards to the below mentioned technical requirements of the UPS. Your sealed quotation should reach latest by 5 PM on 11th November, 2013 to **Dr. P. K. Chowdhury, Department of Chemistry, Indian Institute of Technology – Delhi (IIT Delhi), Hauz Khas, New Delhi - 110016**. Your quotation should be superscribed “Quotation for Two 30 KVA Online UPS Systems due at 5 PM on 11th November, 2013”.

Capacity of UPS: 30 kVA
Quantity required : Two

S. No.	Parameter	Specifications
1.	Voltage	Input: 380V-440V AC + N Output: 3*380/400/415V + N (Three phase) (all three multiple output) Total Harmonic Distortion (THD) = 8%
2.	Output Wave Form	Sinusoidal THD on linear load $\leq 2\%$ THD on non-linear load $\leq 3\%$
3.	Frequency	Input: 50 Hz $\pm 10\%$ Output: 50 Hz $\pm 0.01\%$
4.		UPS should have integrated 100% IGBT rectifier + IGBT based inverter with inbuilt Galvanic Isolation Transformer. The isolation transformer must be in-built
5.	Input Power Factor	≥ 0.92
6.	Crest Factor for Output Current	3:1
7.	Output Power Factor	= 0.9
8.		UPS should be capable of automatic transfer for bypass in case of short circuit, overload and

	inverter failure	
9.	Protection Degree	IP20 (IEC 60529)
10.	UPS should have alarms for main power failure, low batteries, overload, high temperature and any other unwanted problem	
11.	UPS should have efficient cooling and be bale to work under the following conditions: Operating Temperature of UPS: 0 – 40 °C Operating Temperature of Batteries: 20 – 25 °C Humidity: upto 95%	
12.	UPS should have suitable display for input/output parameters	
13.	UPS should be able to interface with computer, RS232 port inbuilt and SMS alert provsion should be available	
14.	UPS should have protection against overload, short circuit (> two times normal current), temperature exceeding the operating limits and failure of batteries.	
15.	Overload on by-pass: 200% for 5 minutes and 35 time sin for 10 ms on bypass	
16.	Overload Capacity (at Load PF = 0.9): 125% for 10 minutes and 150% for 1 minute	
17.	Backup Time	30 minutes on full load
18.	Overall Efficiency	> 90%
19.	Design and Manufacturing	ISO 14001/ISO9001
20.	Certification	CE
21.	Battery Type	Sealed Maintenance Free batteries with interconnectors, Racks and accessories
22.	Battery Make	Quanta (Amara Raja), OKAYA/GLOBAL/EXIDE
23.	Warranty	Three years comprehensive for UPS and two years for battery

Terms & Conditions:

1. Please submit the TECHNICAL and FINANCIAL bids in separate sealed envelopes. Mark the two envelopes clearly as “Technical Bid” and “Financial Bid”. Both the sealed envelopes should be sent in a single sealed envelope, with clearly marked as “Quotation for Two 30 KVA Online UPS Systems due at 5 PM on 11th November, 2013”. The quote should reach the following address on or before 11th November, 2013 by 5 PM.

Dr. P. K. Chowdhury
Department of Chemistry
Indian Institute of Technology Delhi (IIT Delhi)
Hauz Khas, New Delhi-110016

2. Please quote prices at FOB New Delhi, inclusive of installation charges.
3. The quotations should be in Indian Rupees as well as international currency wherever possible and should be valid for at least three months.
4. Please attach all the technical literature and a list of similar installations done in India.

5. Warranty details should be provided (*Please refer to item 23 above*). Extra financial charges (if applicable) for the asked warranty details should be included in the financial bid and mentioned very clearly.
6. Payment should be through irrevocable letter of credit.
7. If the quote is being submitted by the representative of the Principals/manufacturer themselves, a valid Agency ship/Dealership Certificate authorizing the agent to quote to IIT Delhi on behalf of the Principals should be enclosed.
8. Complete set of manuals for the operation of equipment should be given.
9. Clearly specify the installation requirements—such as space, power, frequency, environment (Temperature and humidity) etc.
10. If the items quoted are proprietary in nature, please enclose proprietary certificate from the principals stating “certified that _____ is a proprietary item M/s. _____ and no other manufacturer makes these items.
11. If the bidder is an Indian agent, the agency certificate should be enclosed.
12. Please produce compliance certificate for the specification.
13. Training should be provided free of cost.
14. Delivery period should be specifically mentioned and should be as small as possible.
15. The products will be used for educational purposes. Hence any applicable institutional discounts should be offered and stated.
16. Institute reserves the right to accept or reject any or all the quotations without assigning reasons thereof.