

NOTICE INVITING QUOTATION (NIQ)

Date: 01-06-2009

Sealed quotations on company letterhead are invited from **ISO Certified manufacturers** from India abroad or their authorized suppliers / dealers and service agents in India for the supply of the item mentioned in this NIQ.

The quotation must provide detailed information of the configuration and specifications of the item (in the format of page 2) as well as price and terms and conditions of the payment. **The quotation should mention individual unit cost of each of the components as well as total cost of delivery, installation and commissioning at IIT Delhi site.** The Cost should be CIF New Delhi. **Comprehensive warranty of three years is required.**

Interested parties are required to submit their technical and financial bids in separately sealed envelopes and marked respectively as “Technical Bid” and “Financial Bid” on the outside. The two envelopes should be enclosed inside a single sealed envelope and marked:

ATTN: Dr. SURESH BHALLA, SEALED QUOTATION FOR “8 kVA UPS” TO BE OPENED BY PURCHASE COMMITTEE”.

The quotation should be submitted on or before 10th June, 2009 by 10:00 am in the office of **Head, Department of Civil Engineering, Room No. 221, Block No. IV, Indian Institute of Technology Delhi, Hauz Khas, New Delhi- 110016 (INDIA).** The validity of the submitted quotation must extend up to at least three months.

The Institute reserves the right to accept/reject any/all the offers without assigning any reason whatsoever.

NOTES:

- (1) **Each of the essential specification needs to be responded either in range or any applicable answer in the format of page 2. Failure to respond to any essential specification will lead to disqualification.**
- (2) **Delivery within two weeks of receiving supply order.**
- (3) **Vendor should provide reference of supply of equipment within India or outside of similar equipment. IITD reserves the right to interact/visit with the referred customer as per its convenience.**
- (4) **Installation, Commissioning and terms of conditions:** The quoted cost should include taxes and freight to IIT Delhi. Cost should include installation, deputation of competent engineers for installation. Systems required for smooth running of the equipment should be specified in pre-installation requirements along with their detailed technical specifications. Also specify requirement of electric power.
- (5) **In order to visit the site of installation, please contact Mr. LAL SINGH at 2659-6247/ 2659-6260.**

SPECIFICATIONS FOR ONE NUMBER 8kVA UPS

PARAMETER	REQUIREMENTS	RESPONSE BY SUPPLIER (RANGE/ YES/ NO)
Back up time	Min one hour	
Delivery and installation	Within 2 weeks of receiving supply order	
Total Harmonic Distortion (THD)	< 3% for Linear load, < 5% for Non-linear load	
Switching Frequency	> 10 KHz	
Wave form	Sine Wave	
SNMP compatibility	Required	
RS-232 inbuilt - Monitoring	Required, with Software CD & cable free of cost.	
Hot standby	Required	
Charging current	Selectable - upto 10A.	
Static & Manual bypass	Yes	
Crest Factor	3:1	
Operating temp	0-45 Deg C	
Cold start	Required	
DC voltage	240V	
<u>INPUT</u>		
230V, AC, Single Phase / 400V 3 phase		
Voltage Range - Full load	150-280V for 1 phase / 320-480V for 3 phase	
Frequency Range	50 Hz +/-6%	
Input Power Factor	> 0.95	
Compatibility to D/G set	Yes	
<u>OUTPUT</u>		
Voltage	230 V AC +/-1 %, single phase	
Frequency	50 Hz +/- 1 %	
Overload Capacity	110% for 10 min. , 125% overload for 1min & 150 % for 30 sec.	
Power Factor	0.8 Lagging	
Transient Response Time	For 100% load change, output will remain within $\pm 5\%$ and recovery within 20 ms.	
Isolation transformer at output	Yes	
<u>EFFICIENCY</u>		
Overall Efficiency	> 85%	
Inverter Efficiency	> 90%	
Protection	Short Circuits, Over Load, Over Temperature, Input low/ high voltage / DC low/high voltage trip	
	Input / output / Battery Fuse	
<u>L.C.D. meter</u>	Graphics display showing the status of operation, Input / output voltage & frequency, level of battery charging, load level.	
<u>Audible Alarm</u>	Required	