

**Department of Chemistry**  
**Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110 016**

***Notice Inviting Quotations (NIQ) for the Purchase of a N<sub>2</sub> Gas Generator***

Quotations (separate sealed envelopes of technical and commercial bids kept together in a single sealed outer envelope) are invited for the purchase of a “**N<sub>2</sub> Gas Generator**” as per the specifications given below. Your sealed quotations should reach the address given below at the latest by 5 p.m. (IST) on 13-03-2013 with the superscription “**N<sub>2</sub> Gas Generator due on 13-03-2013**”:

**Dr. S. Nagendran,**  
**Department of Chemistry**  
**Indian Institute of Technology-Delhi (IIT-Delhi)**  
**Hauz Khas, New Delhi-110 016**  
**E-mail: [sisn@chemistry.iitd.ac.in](mailto:sisn@chemistry.iitd.ac.in)**

***Minimum Technical Specifications for the N<sub>2</sub> Gas Generator:***

Technology	:	PSA type with long life carbon molecular sieves
Flow rate	:	Should be variable and at least 6 SLPM
Purity	:	Greater than or equal to 99.9995% at the flow rate of 6 SLPM
Pressure	:	Up to 7 barg
O <sub>2</sub> level	:	Less than 10 ppm at the flow rate of 6 SLPM
H <sub>2</sub> O level	:	Less than 90 ppm at the flow rate of 6 SLPM
Compressor	:	Should be in-build, oil free, and maintenance free up to 10,000 working hours
Instrument operation temperature	:	Should be between 6 to 38 °C
Noise level	:	Should be less than 55 db
Service due indicator	:	In-build in the system
Instrument control	:	All operations should be through a microprocessor with electronic display. It

		should be able to give report alarms during leakage, deviation from set parameters, etc.
Instrument relocation capability	:	Should be easy through wheels
System protection	:	IP20

All the necessary items and accessories for making the unit complete and functional should be of supplied and should be mentioned in detail in the technical bid. All the other consumable items/parts required for the first five years of trouble free operation/maintenance and a comprehensive onsite warranty for the same period should be given.

**Terms and 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 the marking “Quotations for a **N<sub>2</sub> Gas Generator** due on 13/03/2013” on the top. The quote should reach the following address on or before 13/03/2013 (up to 5.00 PM).

S. Nagendran  
Assistant Professor  
Department of Chemistry  
Indian Institute of Technology – Delhi (IIT Delhi)  
Hauz Khas, New Delhi - 110016

2. Please quote both FOB and CIF (New Delhi) prices. Include the installation charges also.
3. Quote should be in Indian rupees as well as in international currency and be valid for at least three months.
4. Attach all the relevant technical literature and a list of similar installations done in India.
5. A minimum of five years comprehensive onsite warranty should be provided. Also, quote warranty/AMC for the next three years after the completion of the onsite comprehensive warranty.
6. Mention if you can provide any technical support like training of IIT Delhi personnel at IIT Delhi or in your factory. Kindly mention about this in the technical bid.

7. If the quote is being submitted by the representative of the Principals/manufactures themselves, a valid Agency ship/Dealership Certificate authorizing the agent to quote to IIT Delhi on behalf of the Principals should be enclosed.
8. The Institute reserves the right to accept/reject any/all quotations without assigning any reasons thereof.
9. Complete set of manuals for the operations and servicing of equipment should be given. All circuit diagrams, other mechanical, and electrical schematics must be provided to main unit, sub systems, and accessories.
10. Spare set - A complete set of spares and consumables should be supplied for five years of trouble free operation.
11. Delivery period: Within 2 months from the receipt of PO.
12. Clearly specify the installation requirements – such as space, power, frequency, environment (temperature and humidity) etc.
13. If the items quoted are proprietary in nature, please enclose proprietary certificate from the principals stating “certified that ----- is a proprietary item of M/s. ----- and no other manufacturer make these items”.
14. If the bidder is Indian agent, the agency certificate should be enclosed.
15. Please produce compliance certificate for the aforementioned technical specifications with suitable details. Just mentioning “Yes” for all without adequate literature may lead to the rejection.
16. Please ensure that the Indian agent has been enlisted with the Department of Expenditure, evidence may please be attached.
17. The details regarding the service network of the company in India should be clearly mentioned in the technical bid.