

NOTICE INVITING QUOTATION (NIQ)

Date: September 5, 2012

EQUIPMENT:HIGH TEMPERATURE FURNACE

Sealed quotations on company letter head are invited from the manufacturers of repute or their authorized suppliers/dealers and service agents in India for the supply of the item mentioned in the NIQ.

The quotation must provide detail information of the configuration and specification of the item (in the format given below) as well as price, warranty, and terms and conditions of payment etc. The cost should also include applicable taxes, transportation to IIT Delhi site and installation etc.

Interested parties are required to submit their technical and financial bids in separate sealed envelopes and marked as “**TECHNICAL BID**” and “**FINANCIAL BID**” respectively on the ENVELOPE. **Both envelopes should be enclosed in a single sealed envelope marked as:**

Quotation for High Temperature Furnace

The quotation should be submitted on or before **September 27, 2012 up to 5 p.m to:**

Prof. H. C. Gupta
Department of Physics
Indian Institute of Technology Delhi
New Delhi 110016

The validity of the quotation must be for a period of three months from the last date of the tender.

The institute reserves the right to accept/reject any/all the quotations without assigning any reason whatsoever..

NOTE

- (1) Each of the essential specification needs to be responded either in range or applicable answer in the format of page 2. **Failure to response to any essential specification will lead to disqualification.**
- (2) Authorization certificate from the principal (if applicable) should be attached with technical bid.
- (3) Delivery and installation should be completed within two weeks of receipt of supply order.
- (4) The payment shall be made as per IIT Stores and Purchase rules after satisfactory installation of the equipment.

TECHNICAL SPECIFICATIONS OF THE HIGH TEMPERATURE FURNACE

S. No.	Parameters	Requirement	Response by supplier (range/yes/No)
1	Maximum Temperature	1700 °C	
2	Working Temperature	1600 °C	
3	Temperature accuracy	within $\pm 5^{\circ}\text{C}$	
3	Vacuum	Capable of producing $<10^{-3}$ Torr	
4	Ambient	Controllable (Ar, Oxygen etc.)	
5.	Power Supply & control	Thyristor based with air-cooled Transformer,	
5	Temperature Controller	Microprocessor based PID, Programmable with ramping feature along with simultaneous DISPLAY OF SET POINT AND ACTUAL TEMPERATURE,	
6	Control and display	Control unit separate from the furnace	
7	Size/Length of uniform heating zone	Should be able to accommodate a boat 100 mm long. Zone diameter $> 45\text{mm}$	
8.	Heating elements & Power rating	Disilicide of molybdenum, 6 KW or higher	
9	Protection for safety	Fuses and related electronics For short circuit and over current, etc.	

SPARE PARTS:

1. **Heating elements: one set of six/four**
2. **Ceramic tubes for the ABOVE: 2**

(H. C. Gupta)
Emp. Code: 15281