

DEPARTMENT OF APPLIED MECHANICS

INDIAN INSTITUTE OF TECHNOLOGY, DELHI

23rd Nov. 2011

NOTICE INVITING QUOTATIONS

Subject: Purchase of "Fast Response Probe for Simultaneous Measurement of Both Velocity and Pressure"

Sealed quotations in two-bid (*Technical and Commercial in separate sealed envelopes*) are invited for the purchase of a "Fast Response Probe for Simultaneous Measurement of Both Velocity and Pressure" as per the details given below, by 6th December 2011 to the undersigned. Your quotation should be superscribed "Technical/Commercial Quotation for Fast Response Probe for Simultaneous Measurement of Both Velocity and Pressure".

A list of customers in India & Abroad must be enclosed with the technical bid. It would be preferable to enclose a couple of customer approval certificates with the technical bid.

SPECIFICATIONS

1. Probe type : Fast response multi-hole sensor probe for simultaneous measurement of fluctuating velocity and pressure.
2. Frequency response : 2.5 kHz or better (*quote separately for each*)
3. Probe head size : Option a) ≤ 2 mm; Option b) ≤ 3 mm
(*quote separately for each*)
4. Differential Pressure range : 10" WC
5. Velocity range : up to 15 m/s
6. No. of holes : 05
7. Standard calibration certificate at 10m/s. Also quote separately for additional calibration certificate at 5m/s.
8. Since the frequency response is expected to a strong function of the flow dynamic pressure a table showing the expected frequency response at different pressure ranges would be useful.
9. Computer Interface : The probe has to be compatible with the data acquisition system present in our laboratory. Details are as follows:
 - *PCI data acquisition card : NI PCI 6143*
 - *(Simultaneous sampling and hold)*
 - *Resolution : 16bit*
 - *± 5 V analog input signal range*
 - *Sampling frequency : 250kS/s/channel*
 - *Analog input channel interface with external transducer through BNC connector*
 - *Make : National Instruments*
 - *Software: LabView 8.5*
 - *Operating System : Windows XP/ Windows 7*

S. V. K. K. K.

Other Terms & Conditions:

- **Validity of the quotation required** : 90 days
- **Warranty** : 01 year
- **Payment** : 100% on commissioning (preferred)
- **Please quote the price of the above item on FOB (*Freight on Board*) basis either in USD or EURO currency. IIT Delhi will bear the actual Freight charges as per IATA (*International Air Transport Association*) rate and additional insurance charges.**
- If the above item is a proprietary item then a **Proprietary Certificate** should be enclosed.
- The bidder must be a reputed OEM or an authorized local agent.
- If there is any Indian agent associated with the foreign supplier, then an appropriate "Letter of Authorization" certificate has to be provided with the quotation.
- Further, if the Indian agent quotes for the above mentioned item on behalf of the foreign supplier, then the Indian agent should be enlisted with the Department of Expenditure, Ministry of Finance (Government of India). Copy of the supporting documents has to be enclosed with the quotation. Further, in the letter it must be clearly stated from the principles that the bidder is an authorized agent.
- Quotation for the above equipment in a sealed cover should be submitted to "**Prof. Srinivas V. Veeravalli, Applied Mechanics Department, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110 016**" by **6th December 2011**.
- **IIT reserves the right to reject any or all the quotations without assigning any reason.**



Prof. Srinivas V. Veeravalli
Chairman,
PC No.:10419, Dt.:30-09-2011