



**NATIONAL CENTER FOR COMBUSTION RESEARCH  
AND DEVELOPMENT (NCCRD)  
INDIAN INSTITUTE OF TECHNOLOGY MADRAS  
CHENNAI – 600036, INDIA**

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**Ref. No. ICS/11-12/013/DSTX/TSUN**

**Date: 28 Aug. 2014**

**Due date: 18 Sep. 2014**

**Item name: Pressure Scanner (1 No.)**

1. Quotations are invited in duplicate for the items shown overleaf (in Annexure I). The quotations duly sealed and superscribed on the envelope with reference no. and due date, should be addressed to the undersigned so as to reach on or before the due date mentioned above.
2. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
3. The total cost of the equipment in terms of CIP Chennai should be clearly mentioned.
4. Terms of warranty and guarantee should be explicitly mentioned.
5. Packing and delivery charges, customs and clearance duty should be clearly stated.
6. Goods shall not be supplied without an official supply order.
7. Local firms : Quotations should be for free delivery to this institute. If quotations for ex-godown delivery charges should be indicated separately.
8. Firms outside Chennai: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If ex-godown, packing, forwarding and freight charges must be indicated.
9. The rate of sales / general taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for sales / general taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax (CST) applicable to non-government educational institutions run with no profit motive for which a concession sales tax certificate will be issued at the time of final settlement of the bill.
10. Payment : Specify the mode of payment and if advanced payment has to be made. Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.
11. IIT Madras is exempt from payment of excise duty and is eligible for concessional rate of customs duty. Necessary certificate will be issued on demand.
12. IIT Madras has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
13. The sealed quotation may be sent to

**Prof. S. R. Chakravarthy**

**NCCRD Office**

**No. 201, Rarefied Gas Dynamics Lab (Behind Aerospace Engineering Dept.)**

**Chennai – 600036**

**(P) +91-44-22575025**



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**Annexure I**

**Ref. No. ICS/11-12/013/DSTX/TSUN**

**Date: 28 Aug. 2014  
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**Specification for pressure scanner**

**QTY-1SET.**

1. Should be capable of measuring sixty ports simultaneously.
2. Each port should have an individual piezo resistive pressure sensor.
3. Pressure range should be 0 to 10 bar (Refer point number 7 also).
4. Hardware and software triggering should be available.
5. Burst pressure should be more than 10 bar.
6. The sixty ports can be in a single unit or upto a maximum of four units, but should support simultaneous triggering and data acquisition from all ports (Using interface block or similar).
7. Configuring individual or set of sensors with separate pressure range is required. (Such that configuring the scanner for three or more ranges in a same run (Example: 16 sensors in a range of 0-3 bar, 24 sensors in a range of 0-5 bar, remaining in a range of 0-10 bar)).
8. Give a detailed quotation including scanner, interface/s, cable/s, power supply (if required).
9. Cumulative error should be less than or equal to  $\pm 0.2\%$
10. It should have self calibrating capability.
11. Capability to integrate with LabView is required.

**Note**

- Clarify any technical details before quoting by contacting us.
- Ensure the delivery within 4 to 5 weeks from the date of purchase order (PO).
- Describe your warranty terms clearly.
- Give a list of existing installations in India with contact information of previous buyers.

**For any technical clarification please contact**

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-Or-

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