



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

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

Date: 25 Oct. 2016

Due date: 15 Nov. 2016

Item name: COMPRESSED AIR PIPELINE - HIGH PRESSURE - 10 bar

1. Quotations are invited in a **two bid system** for the items shown overleaf (in Annexure I). The offers / bids should be submitted as Technical bid and Financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and Financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Tender for supply of “ _____ ” should be written on the left side of the Outer bigger cover and sealed.
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.)

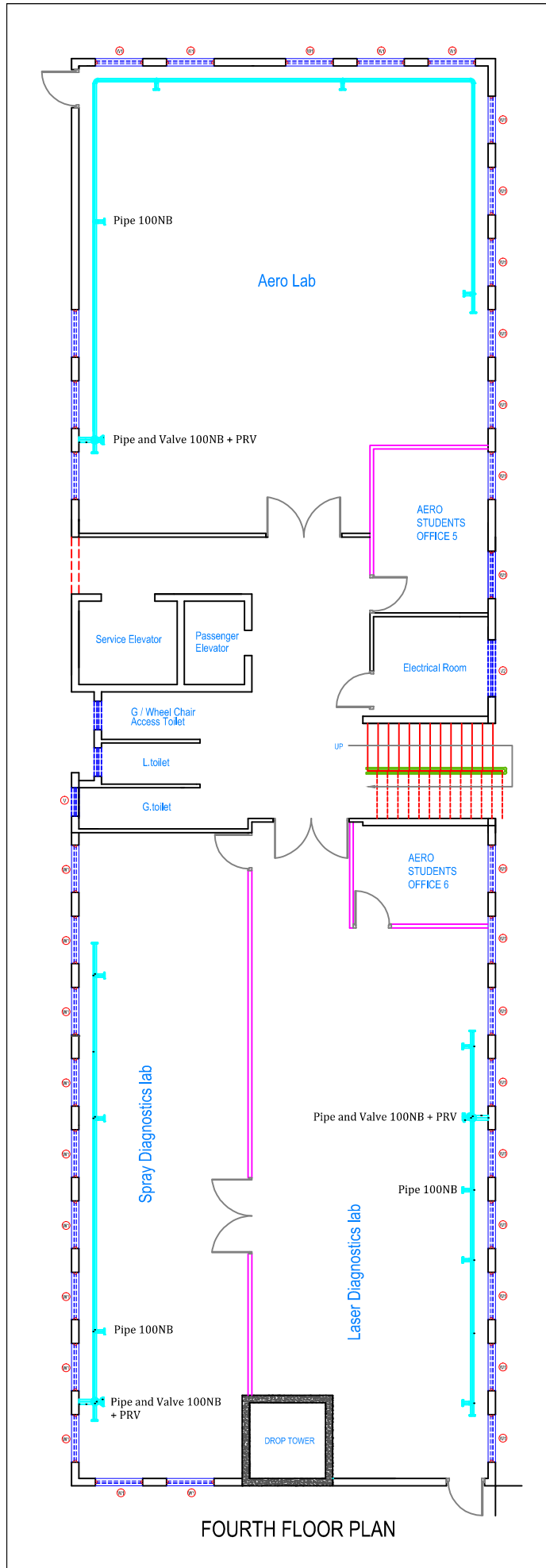
Chennai – 600036, Ph. (O) +91-44-22575025

Compressed Air Pipeline – High Pressure – 10 Bar

Sealed tenders are invited from eligible bidders for laying of compressed air pipe lines on the 4th floor of NCCRD building. A schematic diagram of the routes of the pipelines is attached.

The material used and work should be of the specifications given below:-

- 1) Pipes : 100NB (Qty. – 80 meters) Carbon steel seamless, Schedule – 40. Material as per ASTM A-106 Grade B.
- 2) Pipe Make : Jindal / Tata
- 3) Pipe Fittings : Seamless carbon steel forged fittings as per class 300 and Material as per ASTM A234 WPB.
- 4) Valves : 100 NB - (Qty. - 6 Nos) Flanged Gate Valves, class 300.
- 5) Valve Make : L&T / Leader.
- 6) Support : The pipeline should be supported at every 3 metres.
- 7) Painting : The entire length of the pipeline should be given 1 coat of Zinc Chromate Primer & 2 coats of Enamel as per standard blue colour for compressor air supply lines, and the supports Should be painted Black as per IS 5 standard.
- 8) Pressure Testing : The pipelines should be pressure tested at 1.3 times of the Working pressure.
- 9) Test Certificate : Test certificates for the pipes and fittings should be furnished by the bidder.
- 10) Radiography : 10% of the joints selected at random by the end user should be Radiographically tested for defects.
- 11) PRV self
–regulating :
 - I) Size : NB 4”.
 - II) Inlet pressure range : 35 bar to 42bar.
 - III) Pressure control range
 - In the downstream : 5 bar to 12 bars.
 - IV) Flow rate : 2kg/sec.
 - V) End connections : Flanged End
 - VI) Quantity required : 3 units
- 12) It is mandatory that the prospective bidder should visit the site and apprise themselves of the scope of work before submitting the tender.
- 13) Pre bid meeting : Date 10-11-2016 @ 11am. Venue: NCCRD Conference room
- 14) Warranty : Free service during warranty period up to 1year after Installation.
- 15) Payment mode : 50% after supply of material.
30% after installation of commissioning.
20% after certification by end user.
- 16) Contact Person for Clarification: Mr. Krishnakumar D, Project Officer ([8124430509](tel:8124430509)-adkrish.aero@gmail.com) Mr. Sree Renganathan T, Project Associate (9488662690).



FOURTH FLOOR PLAN

