



Department of Applied Mechanics  
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Due Date: 26.02.2018

1. Quotations are invited in duplicate for the item shown overleaf (in Annexure I).
2. The quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate Contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges and collected back at the supplier's expenses.
6. **Local Firms:** Quotations should be for free delivery to this Institute. If quotations are for Ex-Godown, delivery charges should be indicated separately.
7. **Firms outside Chennai:** Quotations should be for F.O.R Chennai. If F.O.R. Consigner stationer freight charges by passenger train/lorry transport must be indicated. If Ex-Godown, Packing, forwarding and freight charges must be indicated.
8. The rates of GST and 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 GST/General Taxes will be admitted at any stage and on any ground whatsoever.
9. IIT Madras is eligible for concessional GST. Relevant certificate will be issued. In case of Imports, the price should be quoted without custom duty. I.I.T. Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty. In case of import supply, the price should be quoted on **EX-WORKS** and **CIP** basis indicating the mode of shipment.
10. Goods should be supplied with carriage paid and insured.
11. Goods shall not be supplied without an official supply order.
12. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.
13. **Acceptance and Rejection:** - IIT Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or rejects it in full without assigning any reason.

*K. Arul Prakash*



**Dr. K. ARUL PRAKASH**  
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## ANNEXURE I

### SPECIFICATIONS FOR PORTABLE AIR FILTER FLAT SHEET MEDIA TEST RIG

- **Portable Air filter test rig** as per **ISO 5011** standard comprising the following:
  - Acrylic body to test flat sheet media (e.g. cellulose based) of sizes 200 mm diameter with provision to test filters of size 100 mm dia.
  - Suction type blower with a flow rate ranging from 1 CFM to 100 CFM with a provision for flow regulator to control the flow rate.
  - Pressure sensors (with standard calibration certificate) to measure the pressure drop ranging from 0.1 to 30 cm of WC upstream and downstream of the filter media in the test duct section. Performance of the sensors should not be affected by the presence of dust and surrounding environment.
  - Comprehensive instrumentation (with calibration) to measure pressure drop, filtration efficiency and dust holding capacity per unit surface area. The air filter test rig should have provisions for connecting suitable Particle counter/Air spectrometer from upstream and downstream of the filter media to measure the particle distribution.
  - Test section should be designed in such a way that the filter media with dust should be easily removable to calculate the filtration efficiency.
  - Computerized reverse cleaning actuated by compressor to remove the dust loaded in the filter media.
  - The filter media holder in the test rig should have the capability to test multiple flat sheets and pleated configuration. A provision for testing an array of cyclone separators (up to 5 cm length) in front of the flat sheet configuration is desirable.
  
- Warranty of the components supplied should be for one year from the date of installation.
  
- **OTHER TERMS AND CONDITIONS:**
  - A detailed manual describing all the parts of the equipment, operating procedures etc. should be provided.
  - A demo should be provided by the supplier.
  - Delivery of the machine should be within 3 months of the release of P.O
  - After sales support and technical help within 24 h of call during the experimentation is highly desirable.
  - Extended warranty (AMC) offered after regular warranty period for the same has to be mentioned separately.

**Note: Hard copy of the quotation has to be sent to the following address in a sealed envelope**

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