

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**  
**Department of Earth Sciences**

**Enquiry No: ES /IS/2015-2016/26**

**Date: 02.12.15**

**Subject: Quotation for supply of Dust Sampler as mentioned below.**

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover in order to reach us by December 14, 2015 in the form of a hard copy to the address mentioned below. If you have any questions please call Dr. I. S. Sen at 2596440, email: [isen@iitk.ac.in](mailto:isen@iitk.ac.in).

**Technical Specifications for Dust Sampler:**

- The instrument is required to collect the ambient particulate matter of aerodynamic size less than 10 micron and coarser particles separately in a cyclone collector.
- The cyclonic separation technique should be designed in order to have sharper cut off as close to 10 microns.
- The respirable dust sampler flow should be measured across a critical orifice and directly in m<sup>3</sup>/minute. Its flow metering calibration setups should be traceable to National standards.
- The instrument should have low noise and negligible impact of voltage fluctuations.
- The sampler should feature an automatic flow controller, which switches off, if flow rate is reduced beyond the tolerance level due to filter loading.
- The instrument should be designed in a way to attach with a gaseous sampler for monitoring gaseous pollutants like SO<sub>2</sub>, NO<sub>x</sub>.
- The instrument should be designed in such a manner that insures user's safety and remains unaffected from environmental factors (such as dust and temperature, air pressure). The instrument should therefore be rugged and reliable.
- The instrument should be easy to maintain.
- The vendor is also required to provide the filter papers along with the respirable suspended particulate matter sampler :
  - ✓ The size of the filter paper should be near about 8"x10" inches.
  - ✓ The filter paper should have low background for interference-free chemical determinants.
  - ✓ The filter paper should have low tare mass for accurate gravimetric analysis.
  - ✓ The pore size of the filter paper should be near about 1.5 -2.0 μm.
  - ✓ The filter paper should be heat treated to remove organic traces.
  - ✓ Required 200 sealed packets of filter paper.

**Terms and Conditions:**

- 1) Maximum education discount, if any should be offered.
- 2) Validity of quotation should be at least for 60 days.
- 3) Prices should be quoted on FOB (Free on Board) only (if imported).
- 4) Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection).
- 5) Quotation should carry proper certifications like agency certificate, proprietary certificate, etc.

Kindly write the inquiry number on the top of envelop.

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