

**INDIAN INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING**

**Enquiry letter for purchase of Continuous Particulate Monitor for PM-10, On Line
Particulate Monitor for PM-2.5 and One Inlet for PM-2.5**

Sub: Quotation for supply of Continuous Particulate Monitor for PM-10, On Line Particulate Monitor for PM 2.5 and One Inlet for PM-2.5

Reference: IITK/CE/2013_025

Dated 04.03.2013

Sir / Madam,

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover. Configuration/Specification are given below:

1. **Range** : 0 - 65 mg per cubic meter
2. **Accuracy** : 2.5 µg or 10% in 24 hour period
3. **Measurement Cycle** : Hourly measurements with 1, 5, 10, 15, or 30 min real-time averages
4. **Beta Source** : C14, less than 75 microcurie, Half life of 5730 years
5. **Detector** : Scintillation probe
6. **Analog Output** : 0-1V, 0-2.5v, 0-5V, selectable hourly or real-time output
7. **Filter Tape** : Continuous glass fiber filter
8. **Inlet** : Compatible with EPA PM 10 and PM 2.5 inlets
9. **Flow Rate** : 16.7 liters per minute, adjustable
10. **Flow accuracy** : +/- 2% of reading, volumetric flow controlled
11. **Sample Pump** : Dual diaphragm type, DC powered, 4000 hr rating
12. **Alarm Signals** : Filter, flow, power and operation failure
13. **Input Power** : 12 Volts DC @ 48 Watts max
14. **Alarm Contact Closure**: 2 Amp @ 240 VAC max
15. **Operating Temperature**: -30 Deg C to 50 Deg C
16. **Enclosure** : 41 cm x 36 cm x 20 cm, 13kg

Along with following standard components:

- 8 Channel Data logger
- Internal DC Vacuum Pump Standard
- Real-Time Concentration
- PM10 Inlet
- Aluminum Tripod
- Ambient Temperature Sensor
- Volumetric Flow Control
- Weatherproof Enclosure
- Filter Temperature Sensor
- Filter RH Sensor
- Filter Pressure Sensor
- Calibration Membrane

The quotation should have the following details:

1. Cost of the item and accessories and installation charges, if any
2. Technical specifications in detail
3. Warranty period
4. Educational discount considering end use for research and teaching
5. Payment terms
6. Proprietary Certificate, if applicable
7. Any other relevant details

Terms and condition:-

1. Sealed Quotation must reach to us till 15.03.2013 before 5.00PM
2. Prices should be in USD and CIF Delhi.

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