Notice Inviting Quotations

NIQ No. IITD/Civil (Store)/2012-13

Deadline: February 15th, 2013 (5:00PM)

Department of Civil Engineering wishes to purchase Aerosol Spectrometer/ Environmental Dust Monitor as per the specifications given below.

Technical & Commercial bids (in two separate sealed envelopes) clearly labeled with note as “Quotation for Aerosol Spectrometer/Environmental Dust Monitor” should reach the following address on or before February 15th, 2013 by 5PM.

Technical Specifications:

A Portable battery operated system for Indoor & Outdoor Dust Measurement in following user selectable modes:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Specifications</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>1</td>
<td>Number distribution</td>
<td>Particle count concentration in 15 or more channels shown as particles/liter</td>
</tr>
<tr>
<td>2</td>
<td>Mass Fractions</td>
<td>Occupational (inhalable, thoracic, alveolic) in µg/m³ in conformity with standard EN 481. Environmental (PM₁₀, PM₂.₅, PM₁) in µg/m³ Mass distribution in 15 channels in µg/m³</td>
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<tr>
<td>3</td>
<td>Measurement</td>
<td>Light scattering based Real-time measurement of aerosol in ambient air in different size channels.</td>
</tr>
</tbody>
</table>
| 4     | Size channels | 15 or more size channels  
 5 Channels or more for particle size diameter ≥0.3 µm & <1.0 µm  
 5 Channels or more for particle size diameter ≥1.0 µm & <5.0 µm  
 5 Channels or more for particle size diameter ≥5.0 µm & ≤20 µm |
| 5     | Data Collection Mode | User selectable in following modes  
 * 15 channel COUNT Mode in Particles/ltr  
 * 15 channel MASS Mode in µg/m³ |
| 6     | Count range | 1 to 2,000,000 particles/litre |
| 7     | Mass range | 100,000 µg/m³ |
| 8     | Sensitivity | 1 particle/ltr in Count and 1 µg/m³ in MASS |
| 9     | Sample flow rate | 1.2 ltr/minute – volumetric controlled |
| 10    | Operating temp | 0 – 40 °C |
| 11    | Dust collection | On removable 47 mm PTFE filter paper |
| 12    | Auto Calibration | Auto zero at start-up |
| 13    | Averaging | User programmable data averaging from 1 minute to 1 hour in user selectable steps. |
| 14    | Data Logging | Built-in data logger for storage of 1 month data of 5 min averaged value on removable storage cards. |
| 15    | Power | 220 V +/- 10%, 50 Hz & Rechargeable battery with charger for minimum 5 hours operation |
| 16    | Diagnostics | Self-diagnostics at the start |
| 17    | Outputs | RS 232 Com port |
| 18    | Weight | < 3 Kg with battery |
| 19    | Software | Window based software for PC to read out data from storage card and data processing for presentation in numeric and graphic mode with statistical package for min, max, mean, range, variation, deviation, etc. |
Temperature and Relative Humidity sensor required

- Temperature and Humidity Sensor compatible with Aerosol Spectrometer with simultaneous facility for data logging

Accessories required

- Battery with charger, Radial symmetrical sampling head, PTFE Filter 47 mm (25 pcs.), Cable for data transfer on USB port, Carrying case, Power cable

Optional items required

- Battery (1 no.), PTFE Filter 47 mm (25 pcs.), Zero Filter for zero check (1), Pump Protection filter (1), O-rings (set), Tubings (set), Spare Sampling Pump

Calibration Facility

- Bidder must have Calibration Facility in India and should provide details on the Calibration facility available with them

Bidder Credibility

- The Bidder should be a reputed manufacturer with minimum 10 years of experience and they have Exclusive/Authorized Agent in India since last 5 years or more.

For any queries, please do not hesitate to contact undersigned.

**Terms & Conditions:**

- Detailed specifications, catalogue/literature and authorization certificate of all items quoted should be supplied with quotation.
- Bidder should provide user list for the said item in India and Performance Certificate from minimum 5 users in India
- Bidder must specify Customs Tariff Code and Custom Duty applicable for IIT Delhi in their quotation.
- If the items quoted are proprietary in nature, please enclose proprietary certificate from the principals stating “Certified that ------------ is a proprietary item of M/s ------------ and no other manufacture make these items”.
- Please quote prices at FOB basis in case of prices in foreign currency
- Price in Indian rupees shall be quoted on FOR Basis.
- Quotation should clearly mention installation & delivery charges. Clearly indicate whether the prices are inclusive of all taxes. Otherwise indicate all taxes separately.
- Special discounts/rebate wherever admissible keeping in the view that supplies are being made for an Educational institute may be indicated in the offer.
- Supplier shall fully warrant that all the materials supplied under the order shall be new and first quality.
- Quotation should be valid for three months from Due Date.
- A minimum of 1 year’s comprehensive warranty of the equipment is required.
- The technical and financial bids should be sealed in separate envelops with proper labeling before putting them together in the sealed cover.
- Payment in Foreign currency will be made by Letter of credit as per Institute’s rules.
- Payment in Indian currency will be released after installation as per Institute’s rules.
- Delivery period should be clearly indicated in the quotation.
- Order must be delivered and installed within 6 weeks of receipt of order.
- Prices for Annual Maintenance Contracts including any applicable discounts for educational use of the equipment for a period of 3 year from the date of installation of the equipment of IIT Delhi should be quoted in a separate sheet within the financial bid.
- Incomplete and conditional submitted tenders would be summarily rejected.
- Institute Reserves the right to accept/Reject any or all quotation without assigning any reason.

**Name and Address for quotations:**

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