INDIAN INSTITUTE OF TECHNOLOGY DELHI
Department of Civil Engineering
Notice Inviting Quotations

NIQ No. IITD/Civil (Store)/2014-15 **February 6, 2015**

Deadline: February 12th, 2015 (5:00PM)

Department of Civil Engineering wishes to purchase **$PM_{2.5}$ Personal Sampler with compatible pump (3 Units)** as per the specifications given below.

Technical & Financial bids (in two separate sealed envelopes) clearly labeled with note as "**Quotation for Purchasing of 3 units of both $PM_{2.5}$ Personal Samplers and Compatible Pumps**" should reach the following address on or before **February 12h, 2015 by 5:00 PM.**

Technical Specifications:

Three units of Portable battery operated system for Personal Sampling of $PM_{2.5}$ Aerosol with following specifications and features:

1. Specifications of $PM_{2.5}$ Sampler (No of unit =3):

S. No.	Specifications	Requirement
1	Type	Single stage impactor
2	Collection of Particle of Cutoff Diameter (d_{50})	Particle Diameter less than 2.5 μm ($PM_{2.5}$) at flow rate of 5 LPM or lower should be collected on filter paper.
3	Essential features	• Sharp $PM_{2.5}$ Cutoff at flow rate ≥ 9 LPM • Compact and light weight (≤ 80 gm) • Should have collar clip
4	Compatible filter paper size	47mm or 37mm, PTFE and Quartz filter media
5	Necessary Tool-kit	Necessary tools is required to change filter papers in personal sampler
6	Bidder Credibility	The Bidder should be a reputed manufacturer with minimum 10 years of experience and they have Authorized Agent in India since last 2 years or more.

2. Specification of Suction Pump compatible with above mentioned $PM_{2.5}$ Sampler (No of unit =3):

S.No..	Specifications	Requirement
1	Flow rate	5 to 15 L/min.
2	Typical run time	Li-Ion battery Rechargeable with 24-hours run time or more with impactors and other sampling devices.
3	Noise level	Should be of low noise not exceeding 65dBA or housed in noise-reducing case
4	Standard Flow control and calibration system	For Maintaining flow calibration automatically
	Flow rate accuracy	±5% of set-point after calibration to desired flow
5	Keypad function	Simple keys to operate the device manually
6	PC Programmability	Compatible to be used with DataTrac software for easy generation of data should be included.

7	Accurate automatic Calibration System	Auto calibration system should be present
8	Adjustable values option	Sample run time, Calibration, Clock Display, flow rate, delayed start and Temperature and atmospheric pressure display
9	Recorded values	Start date and Time, Stop date & Time, Total sample time, flow rate, sample volume, temperature & atmospheric pressure, Pump mode transitions
10	Adjustable Logging Interval	Recording Pumps history upto 6-8 hrs (over more than 100days)
11	Monitoring time	Ideal for 24-hr indoor monitoring and attended ambient monitoring
12	Tubing	Requires 3/8-inch ID tubing
13	Timer Display Range	1 to 99999 minutes (approximately 69days).
14	Operating Temperature Range	0 to 45˚ C
15	Power	Removable, Rechargeable Li – ion battery, input voltage-100-240 V AC along with one extra pair.
16	Weight	1-2 Kg
17	Size	Length less than 25cm, Breadth less than 10cm, Height less than 10cm
18	Display	Touch screen Display for pump related and ambient parameters and with Volume Display
19	Connection case, Charger and Tool Kits	
20	Any Additional Accessories	

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

Terms & Conditions:

- **The technical and financial bids should be sealed in separate envelops with proper labeling before putting them together in the sealed cover.**
- Detailed specifications, catalogue/literature and authorization certificate of all items quoted should be supplied with quotation.
- 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 price at FOB basis in case of price in foreign currency
- Price in Indian rupees shall be quoted on FOR IIT Delhi 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.
- 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.
- 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:

Dr. Gazala Habib
Assistant Professor,
Civil Engineering (Block IV, Room 303)
Indian Institute of Technology Delhi,
New Delhi 110016, India

Email: gazala@civil.iitd.ac.in
Phone: +91-11-2659-1192; Fax: +91-11-2658-1117

Deadline: February 12th, 2015 (5:00PM)