

CSIR - NATIONAL PHYSICAL LABORATORY

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From: Director, CSIR-NPL
Tender No. 14-VI/SGA(1147)23PB/T-233

Dated: 21.02.2024

CORRIGENDUM

With reference to NPL's Global Tender ID: **2024_CSIR_744805_1**, Pre-Bid Conference (PBC) was concluded on 13.02.2024 for "**Particulate Matter (PM) Federal Reference Method (FRM) Sampler**". Consequent upon the outcome of PBC, **some changes have been made in the technical specification of captioned tender. Revised specifications are as follows:**

Detailed Specification

1. **Inlet System:** U.S. EPA designed PM_{2.5} inlet system (PM_{2.5} WINS or VSCC equipped with the PM₁₀ inlet). PM_{2.5} cutoff size must be certified from accredited/ EPA agency (with hard copy of certificate)
2. **Sample Flow rate:** 16.67 LPM (1 m³/h).
3. **Flow rate measurement accuracy:** ±2% or better. Flow can be monitored and recorded for at least every 30 sec during whole sampling duration. Data can be downloadable to computer via USB Port.
4. **Sample flow control:** Automatic flow control system. Volumetric flow control incorporating ambient temperature and barometric pressure (ambient temperature and pressure sensors to control volumetric flow rate controlled by mass flow).
5. **Air Pump:** Diaphragm type, brush less motor, in-built.
6. **Flow calibration unit:** Multi-point (at least 3 points evenly spaced within the range of -10 to +10 percent of the sampler's operational flow rate, and calibration device should have less than or equal to -2 to +2 percent expanded uncertainty in the calibration range certified with SI traceability). Calibration unit (must be of one of the types: bubbler flow meter/ mass flow meter/ dry gas meter, and should be displayed the flow rate in unit of actual ambient volumetric flow rate) routine calibration of the sampler with proper attachments up to 20 LPM range along with calibration certificate (certified with SI traceability). See 40 CFR Part 50, Appendix L, Section 9.2.1 and 9.2.4.
7. **Operational temperature:** -20 to 50 °C.
8. **Volume Totalizer:** Calibrated (certified with traceability) volume totalizer capable to display instantaneous volume passed with an averaging of 30 seconds or better frequency.
9. **Elapsed time indicator:** At least up to 99.99 hours.
10. **Display unit:** Current status should be displayed (current flow rate, volume sampled, time elapsed, date, time, etc.). Auto start and shut down variable timer.
11. **Communication:** USB connectivity for easier data downloads.

12. **Power:** Instrument should be compatible with Indian electrical power specifications (230 Volts, 50 Hz AC power), i.e. as per Indian standard.
13. **Manual:** Hard and soft copy of operation manual should be provided with the instrument.
14. **Certificate:** U.S. EPA approved certification with number.
15. **Warranty:** 2 years (onsite standard)
16. **Training:** Onsite training after installation at NPL for 2 days to at least 2 persons
17. **For Existing Successful Past Suppliers:** In case the bidder (manufacturer or principal of authorized representative) who is a successful past supplier of 'The Product' in at least one of the recent past procurements, who do not meet any or more of requirements above, would also be considered to be qualified in view of their proven credentials, for the maximum quantity supplied by him in such recent past. Also, bidders meeting specifications of sampler with higher standards & features also will be qualified and allowed for participation in this tender.

All other terms & conditions of said tender will remain the same.



Sr. Controller of Stores & Purchase

FORM TO BE USED BY TSC FOR FINALISING PRE-BID MINUTES

File No.

Date: 13-02-2024

TSC Minutes (To be typed clearly by the I/O)

Based on the Pre-bid meeting and recommendation of I/O, following changes have been made in the specifications:

Original Specifications	Final Specifications
Attached	Attached

The file is forwarded to Purchase Section for uploading the final specifications and TSC minutes on the website and CPPP Portal.

Declaration: We hereby declare that we have no conflict of interest with any of the bidder in this tender