

CSIR-National Physical Laboratory
Dr. K. S. Krishnan Marg
New Delhi-110012

Notification

Subject: Provisional certification of low volume manual PM_{2.5} Samplers with minimum acceptability criteria

This is to be inform that the CSIR-NPL & CPCB discussed about the issuance of provisional certificate of low volume manual PM_{2.5} samplers with minimum acceptability criteria after testing of following critical parameters during a joint meeting held on 08/05/2024:


1. Cut point
 - 1.1 D50 cut-off size of impactor / cyclone
 - 1.2 Sharpness of the penetration efficiency curve.
2. Size Selective Inlet Type
3. Height of the Inlet
4. Time Totalizer
5. Flow rate
6. Temperature sensor
7. Humidity sensor
8. Pressure sensor

The pass/fail criteria will be as per the CPCB guideline no. 102946/2023/AQMN-HO on the above listed parameters. The process flow is enclosed as Annexure I for reference.

Convenor, Certification Committee (CSIR-NPL India-Certification Scheme)


15/07/2024

Chairman, Certification Committee (CSIR-NPL India-Certification Scheme)


15.07.24


16/07/2024

Director
CSIR-National Physical Laboratory
&
Member, NPL India Certification Body

Annexure I

Process Flow for provisional certification of manual PM_{2.5} samplers

Sequence No.	Responsible entity	Action items	Reference link
1	Client	Submission of Application form along with required documents to CFCT-NPL	The Head Centre for Calibration and Testing CSIR-National Physical Laboratory Dr. K. S. Krishnan Road New Delhi – 110012 Email: cfct@nplindia.org For certification related: Email: csirnpl-ics@nplindia.org
2	Application review Committee	Verification of application and enclosed documents	
3	Centre For Calibration & Testing-NPL	Acceptance Intimation along with certification fee information to the Client	
4	Client	Submission of fee	
6	Client	Provide two identical systems for testing along with following components of same make and model fitted in Sampler: <ol style="list-style-type: none"> 1. Time totalizer 2. Flow meter/Flow controller 3. Temperature Sensor 4. Humidity Sensor 5. Pressure Sensor 	
7	Testing Labs	Calibration of following parameters: <ol style="list-style-type: none"> 1. Cut point 2. Flow rate 3. Temperature 4. Humidity 5. Pressure 	1. Cut point: D-3.02-Gas-Metrology cali.htm 0.pdf (nplindia.org) 2. Flow rate: D1.08b Fluid Flow cali-2023-24.xls (nplindia.org) 3. Temperature: D-1.03-Temperature-Humidity.pdf (nplindia.org) 4. Humidity: D-1.03-Temperature-Humidity.pdf (nplindia.org) 5. Pressure: Calibration-Charges-D1.06a-Pressure-Vacuum-Ultrasonic-Metrology.pdf (nplindia.org)
8	Certification Committee	Evaluation of test reports	
9	Certification Committee	Recommendation for issuance of provisional certificate	
10	NPL India Certification Body	Approval	
11	Centre For Calibration & Testing-NPL	Communication of NICB decision	

Note: Charges mentioned in the links provided in sr. no. are only for testing of parameters. The clients need to pay additional charges for provisional certificate.