



Madhya Pradesh Pollution Control Board

Environment Surveillance Centre

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No. 149 /HOPCB/ERC/2025

Bhopal, Dt: 04/09 /2025

To,

The Occupier
All the OCEMS/RTM Applicable Industries
(As per the enclosed list)
Madhya Pradesh State

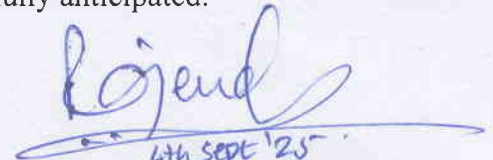
Sub : Revised Protocols for OCEMS Calibration.

Ref. : CPCB letter No. IT-11/11/2021-IT-HO/3989, dated 12.08.2025.

As you are aware that all the categorized polluting industries and other target establishments are required to install online real-time pollution monitoring systems (OCEMS/RTMS) under 'self monitoring of compliance' programme of GoI. Establishing connectivity of real-time monitoring systems with central server at State Pollution Control Board for transmission of real-time data is a prerequisite. It is a positive picture to see that majority of the industries are adhering to the norms in the M.P. State.

Vide aforesaid reference, all the industries are hereby informed that the Central Pollution Control Board has come out with revised protocols for the calibration of OCEMS which categorically specifies the frequency of calibration, performance test and parameters to be considered for calibration under the revised protocol. The performance testing agencies are also mentioned in the new protocol. This is important to note that the calibration of CEMS includes the whole CEMS system and not just the analyzer unit.

In view of above all the industries are required to adhere to the revised protocol and submit the compliance report accordingly. An early response is thankfully anticipated.



(Dr. Rajendra Chaturvedi)
Scientist & I/c ESC

Endt. No. 150 /HOPCB/ERC/2025

Bhopal, Dt. 04/09 /2025

Copy to:-

The Sr. Scientific Officer / Head, Technical section, M.P. Pollution Control Board.
Bhopal for favour of information pls.


(Dr. Rajendra Chaturvedi)
Scientist & I/c ESC

o/c.

Central Pollution Control Board

Revised OCEMS Calibration Protocol

July 2025

Parameter	Calibration/Calibration Check/Performance Testing Requirements	Description
Emission PM	<p>Initial: Initial calibration at the time of installation (by instrument supplier).</p> <p>Quarterly: Calibration Check (in-house), quarterly.</p> <p>Annual: Annual Performance Testing (by EPA Recognized/NABL Accredited lab).</p> <p>Incidental: Calibration after any major repair in the system, change of lamp, readjustment of the alignment.</p>	<p>The Continuous Emission Monitoring System for Particulate Matter (PM CEMS) shall ideally be calibrated against isokinetic sampling method at six samples under running load.</p> <p>Note: In case, deviation of the comparison values (dust factor) for O2 (two) consecutive monitoring is more than 10%, the system shall be recalibrated against isokinetic sampling method, if possible, at six samples under running load.</p>
Emission Gaseous	<p>Initial: Initial calibration at the time of installation (by instrument supplier).</p> <p>Fortnightly: Two Point (Zero and Span) Calibration Check (in-house), once in every fortnight.</p> <p>Three Months: Multi-point (at different concentration levels) Calibration (in-house), once every three months.</p> <p>Annual: Annual Performance Testing (by EPA Recognized/NABL Accredited lab)</p> <p>Incidental: Calibration after any major repair in the system, change of lamp, readjustment of the alignment.</p> <p>Note: Calibration shall include the whole CEMS System.</p>	<p>The instruments/analyzers for real time monitoring of gaseous emissions shall be calibrated with respect to their proper functioning, drift, linearity, detection limit and other relevant parameters, using standard methods and certified reference materials.</p> <p>Apart from certified gas cylinder-based audit, certified portable gas analyzers having NDIR/NDUV/FTIR, with proper sampling system, may also be used for calibration.</p>

Parameter	Calibration/Calibration Check/Performance Testing Requirements	Description
Effluent Temperature, pH	<p>Initial: Initial calibration at the time of installation (by instrument supplier).</p> <p>Fortnightly: Calibration Check (in-house), once in every fortnight.</p> <p>Annual: Annual Performance Testing (by EPA Recognized/NABL Accredited lab).</p> <p>Incidental: Calibration after any major repair in the system.</p>	<p>Temperature: In case, deviation of the comparison values for 02 (two) consecutive monitoring is more than +/- 1 Degree Celsius. The system shall be recalibrated from the calibrated thermometer.</p> <p>pH: In case, deviation of the comparison values for 02 (two) consecutive monitoring is more than +/- 0.2 from certified reference material, the system shall be recalibrated.</p>
Effluent BOD, COD, TOC, TSS	<p>Initial: Initial calibration at the time of installation (by instrument supplier).</p> <p>Monthly: Calibration check (in-house), once every month.</p> <p>Annual: Annual Performance Testing (by EPA Recognized/NABL Accredited lab).</p> <p>Incidental: Calibration after any major repair in the system.</p>	<p>BOD, COD, TOC, TSS: In case, deviation of the comparison values for 02 (two) consecutive monitoring is more than +/- 20% from lab results, the system shall be recalibrated.</p>