राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्रों में वायु गुणवत्ता प्रबंधन आयोग
17 वाँ तल, जवाहर व्यापार भवन,एस. टी. सी. बिल्डिंग, नई दिल्ली-110001
COMMISSION FOR AIR QUALITY MANAGEMENT
IN NATIONAL CAPITAL REGION AND ADJOINING AREAS

F. No. A-11013/09/2020/MERD/2318 **Dated: 15.10.2026**

ORDER

Subject: Remote monitoring of compliance of air polluting industries in NCR – Installation of PTZ cameras– reg.

Industrial emissions, including particulate matter (PM) released through stacks and fugitive emissions arising from various industrial processes, contribute significantly to air pollution in the National Capital Region (NCR). Besides directly increasing particulate matter concentrations, industrial emissions also contribute to the formation of secondary particulate matter, adversely affecting ambient air quality. The impact of such emissions becomes prominent during the winter months, when adverse meteorological conditions restrict the dispersion of pollutants.

2. Since its inception, the Commission for Air Quality Management in National Capital Region and Adjoining Areas (hereinafter referred to as the "Commission") has undertaken several measures to mitigate industrial air pollution, including transition to cleaner fuels, prohibition of polluting fuels and prescription of stringent emission standards, inter alia, through Directions Nos. 53, 62, 63, 64, 65 and 98.

3. The Commission, vide Direction No. 65 dated 23.06.2022, as amended, prescribed a standard list of approved fuels for various applications across NCR, including industrial operations, thereby restricting the use of coal and other unapproved, highly polluting fuels. Notwithstanding these directions, the Flying Squads of the Commission, during inspections of industrial units across NCR, have reported instances of use of unapproved fuels, indicating the need for strengthening compliance monitoring and surveillance mechanisms.

4. With a view to strengthening regulatory oversight and ensuring effective compliance by industries, the Central Pollution Control Board (CPCB), vide its directions dated 09.10.2025 and 12.01.2026 issued to the concerned State Pollution Control Boards (SPCBs) and Delhi Pollution Control Committee (DPCC), mandated installation of PTZ cameras for monitoring specified industrial operations, including stack emissions, Online Continuous Emission Monitoring Systems (OCEMS), furnace feeding areas and fume extraction system areas in the identified industrial sectors.

5. With a view to further strengthening measures for abatement of industrial air pollution and achieving substantial reduction in particulate matter emissions from industries, the Commission, having considered the recommendations of CPCB based on the technical study conducted by the Indian Institute of Technology (IIT), Kanpur and the recommendations of the Technical Committee constituted by CPCB, issued

statutory Direction No. 98 dated 20.02.2026, as amended, prescribing a stringent maximum permissible PM emission limit of 50 mg/Nm^3 for the following categories of industries operating in NCR:

(i) 17 categories of highly polluting industries identified by CPCB;
(ii) Red Category (Medium and Large) air-polluting industries;
(iii) Food and Food Processing and Textile industries having boilers/ thermic fluid heaters; and
(iv) Metal industries having furnaces.

6. Recognising the need for effective monitoring of fuel usage and prevention of unauthorised fuel consumption, the Commission subsequently issued an Order dated 05.10.2026, directing installation of additional PTZ cameras at all fuel storage areas, all fuel-charging points and gas-metering locations in the industrial sectors covered under the aforesaid CPCB directions, with provision for real time streaming of video feeds to CPCB and the respective SPCBs/DPCC.

7. The Commission, upon review of the aforesaid Order, observed that the need for effective monitoring of fuel usage, industrial emissions and compliance with prescribed pollution control measures is not limited to the Textile, Food Processing and Metal industries alone, but extends to other air polluting industries as well. The Commission, therefore, considers it necessary to extend the remote monitoring mechanism to all categories of industries covered under Direction No. 98, to ensure wider coverage and more effective compliance monitoring across NCR.

8. Considering the generally adverse air quality in NCR during the winter months and the instances of non-compliance reported during field inspections, the Commission is of the view that remote monitoring through PTZ cameras needs to be extended to all categories of industries covered under Direction No. 98. Such monitoring would supplement the existing inspection and enforcement mechanisms, promote self-regulation by industries, facilitate timely detection of violations and strengthen compliance with prescribed fuel restrictions, emission standards and pollution control measures.

9. Accordingly, **in supersession of its earlier Order dated 05.10.2026**, the Commission hereby directs that all 17 categories of highly polluting industries identified by CPCB, Red Category (Medium and Large) air polluting industries, Food & Food Processing and Textile industries having boilers/thermic fluid heaters, and Metal industries having furnaces, operating in NCR, shall ensure compliance with the following requirements:

(i) Installation and positioning of PTZ cameras

(a) PTZ cameras shall be installed at all fuel-feeding/charging points of boilers, thermic fluid heaters, furnaces, kilns and other fuel-fired industrial equipment, as applicable, to facilitate monitoring of fuel usage during operations.

(b) In industrial units using gaseous fuels, PTZ cameras shall be suitably positioned to capture the gas meters/gauges and associated metering arrangements, ensuring adequate visibility for monitoring purposes.

(c) Industrial units shall ensure installation of PTZ cameras for monitoring stack emissions and OCEMS sampling/port-hole locations.

(d) Industrial units shall also ensure installation of PTZ cameras for monitoring fume extraction system areas, wherever applicable.

(e) The number, location and field of view of the cameras shall be adequate to cover the relevant areas and operations effectively, without significant blind spots. Where a single camera cannot adequately cover the prescribed locations, additional cameras shall be installed.

(ii) Real-time video monitoring and connectivity

(a) All PTZ cameras installed pursuant to this Order shall be provided with facilities for continuous, real-time transmission of video feeds through Real Time Streaming Protocol (RTSP) to the designated servers/portals of CPCB and the respective SPCBs/DPCC.

(b) Industrial units shall ensure that the cameras and associated communication systems remain functional and that video feeds are accessible to the concerned regulatory authorities for remote monitoring.

(c) The cameras shall be installed and maintained in a manner that provides adequate image clarity and visibility of the relevant operations, including during night-time operations, wherever applicable.

(iii) Power backup and maintenance

(a) All industrial units shall ensure adequate and uninterrupted power supply, including suitable power backup, for the PTZ cameras, communication equipment and associated connectivity systems.

(b) Industrial units shall be responsible for the proper operation, maintenance and timely restoration of the cameras and connectivity arrangements in the event of any malfunction or disruption.

(c) Any prolonged disruption in video transmission or malfunctioning of cameras shall be promptly reported to the concerned SPCB/DPCC, along with the corrective action undertaken.

(iv) Compliance timeline

All industrial units covered under this Order shall ensure installation and operationalisation of the requisite PTZ cameras, including arrangements for real-time transmission of video feeds, by 30.11.2026.

10. CPCB, in coordination with the respective SPCBs/DPCC, shall ensure necessary technical arrangements, including designated portals, servers and associated infrastructure for receiving and accessing real-time video feeds from industries. The respective SPCBs/DPCC shall widely disseminate this Order among the concerned industrial units, monitor compliance and ensure its effective implementation in their respective jurisdictions.

11. The respective State Governments of Haryana, Uttar Pradesh and Rajasthan and the Government of NCT of Delhi, along with CPCB and the concerned SPCBs/DPCC, shall ensure effective implementation of this Order. The requirements under this Order shall be in addition to the existing directions relating to emission standards, use of approved fuels, OCEMS and other pollution-control measures prescribed by the Commission, CPCB and other authorities under applicable environmental laws.

(Tarun Kumar Pithode)
Member Secretary
Email: mscaqm-moefcc@gov.in

To,

1. ACS/Pr. Secretary/Secretary, Dept. of Environment, GNCTD
2. ACS/Pr. Secretary/Secretary, Dept. of Environment, Government of Haryana
3. ACS/Pr. Secretary/Secretary, Dept. of Environment, Government of Uttar Pradesh
4. ACS/Pr. Secretary/Secretary, Dept. of Environment, Government of Rajasthan
5. Member Secretary, Delhi Pollution Control Committee
6. Member Secretary, Haryana State Pollution Control Board
7. Member Secretary, UP State Pollution Control Board
8. Member Secretary, Rajasthan State Pollution Control Board

Copy to:

1. Secretary, Ministry of Environment, Forest and Climate Change, New Delhi
2. Chief Secretary, Government of NCT of Delhi
3. Chief Secretary, Government of Haryana
4. Chief Secretary, Government of Uttar Pradesh
5. Chief Secretary, Government of Rajasthan
6. Chairman, Central Pollution Control Board, New Delhi
7. Chairman, Delhi Pollution Control Committee
8. Chairman, Haryana State Pollution Control Board
9. Chairman, UP State Pollution Control Board
10. Chairman, Rajasthan State Pollution Control Board

Copy also to:

The Chairperson and Members of the Commission

(Tarun Kumar Pithode)
Member Secretary