



Subject: **ORDER UNDER SECTION 6(1) (t) OF THE PUNJAB ENVIRONMENTAL PROTECTION ACT, 1997 READ WITH RULE 4(d) OF THE PUNJAB ENVIRONMENTAL PROTECTION (SMOG PREVENTION & CONTROL) RULES, 2023 REGARDING ONLINE ACCESS THROUGH CCTV CAMERAS**

ORDER

WHEREAS, the Environmental Protection Agency (EPA) Punjab is striving hard to provide for the protection, conservation, rehabilitation and improvement of the environment, prevention and control of pollution, promotion of sustainable development;

2. **AND WHEREAS**, Rule 4 of the Punjab Environmental Protection (Smog Prevention & Control) Rules, 2023 provides Standard Operating requirements whose compliance is obligatory upon Industrial Units. One of the said Standard Operating requirement mentioned in the said rule is installation of online access through CCTV cameras for emission control monitoring system in air pollution causing industrial units for live monitoring of the industrial unit;

3. **AND WHEREAS**, Section 6(1)(i) of the Punjab Environmental Protection Act, 1997, empowers the Environmental Protection Agency, Punjab to establish systems and procedures for surveys, surveillance, monitoring, measurement, examination, investigation, research, inspection, and audit to prevent and control pollution, and to estimate the costs of cleaning up pollution and rehabilitating the environment in various sectors;

4. **AND WHEREAS**, the Punjab Information Technology Board vide its letter No. PITB/Admin dated 23.07.2025 has recommended the following specifications for installation of online access through CCTV cameras for emission control monitoring system in air pollution causing industrial units for live monitoring of the industrial unit at EPA Headquarters:

CCTV Camera Specifications:

Sr. #	Option 1: PTZ Camera (Preferred)	Option 2: Fixed Bullet Camera
1.	4MP 25x Starlight IR WizSense Network PTZ Camera	8MP IR Vari-focal Bullet WizMind Network Camera
2.	1/2.8" 4 Megapixel CMOS	8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.

3.	Powerful 25x Optical Zoom	Outputs max. 8 MP (3840x2160) @ 25/30 fps.
4.	Starlight Technology.	Built-in IR LED, and the Max. illumination distance is 60 m.
5.	Max. 25/30fps@4MP.	ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
6.	IR distance up to 150 meters.	Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
7.	Deep-learning-based perimeter protection.	With deep learning algorithm, it supports: video metadata, smart sound detections, IVS, face detection, smart object detection, people counting, etc.
8.	Auto-tracking 3.0 and Intelligent Video Surveillance (IVS).	Alarm: 3 in, 2 out; Audio: 1 in, 1 out; RS-485; analog output; power output; supports max. 1TB Micro SD Card, built-in dual Mic.
9.	PoE+ supported.	24VAC/12VDC/PoE; power supply; ePoE
10.	IP67, IK10 protection	IP67 and IK10 protection, heater
11.	Smart Motion Detection (SMD) 4.0	SMD 3.0.
12.	Smart H.265+ & H.264+	Anti-corrosion model optional

5. **AND WHEREAS**, Section 6(1) (t) of the ibid Act empowers EPA to take or cause to be taken all necessary measures for the protection, conservation, rehabilitation and improvement of the environment, prevention and control of pollution and promotion of sustainable development;

6. **NOW, THEREFORE**, I, Dr. Imran Hamid Sheikh, Director General, Environmental Protection Agency, Punjab, in exercise of powers conferred upon me under Sections 6(1)(t) of the Punjab Environmental Protection Act, 1997, do hereby order that:

- i. All industrial units, having boilers and furnaces, operating in Punjab shall install CCTV cameras, with the technical specifications as mentioned in paragraph 4 supra.
- ii. The CCTV Cameras installed by such industrial units shall focus on stack terminal from where smoke enters the atmosphere.
- iii. The said industrial units shall share all necessary information with the focal person of EPA Punjab for the said purpose to ensure online access through CCTV cameras for emission control monitoring system in air pollution causing industrial units for live monitoring of the industrial unit.
- iv. The deadline for ensuring compliance with this order is **31.08.2025**.

7. This order shall come into force with immediate effect and shall remain in force until modified or withdrawn.

8. Any contravention of this order shall be dealt under relevant provision of the Punjab Environmental Protection Act 1997, the Punjab Environmental Protection (Smog Prevention & Control) Rules, 2023 as well as under Section 188 of Pakistan Penal Code, 1860.

Issued under my hand and seal this 28th day of July, 2025.

DR. IMRAN HAMID SHEIKH (PAS)
DIRECTOR GENERAL
ENVIRONMENTAL PROTECTION AGENCY
PUNJAB

Copy forwarded for information & necessary action to:

- i. The Secretary, Environment Protection and Climate Change Department, Punjab.
- ii. All the Commissioners of Punjab.
- iii. The DG Public Relations (DGPR) with a request to ensure wide publicity.
- iv. The Director General (E-Governance) with reference to his letter No. PITB/Admin dated 23.07.2025.
- v. All the Deputy Commissioners of the Punjab.
- vi. The Additional Secretary (Staff), Chief Secretary's Office, Lahore.
- vii. The Additional Secretary (In charge Environmental Affairs), Chief Minister Office, Lahore.
- viii. The Additional Director General (Ops & Imp), EPA Punjab.
- ix. All the Directors, EPA Punjab.
- x. PSO to Minister for Environment, Forest and P&D Board, Punjab.
- xi. The Secretary, Judicial Water and Environment Commission (JW&EC), Lahore.
- xii. Law Officer, Punjab Environmental Tribunal.
- xiii. The Deputy Director (Strategy and Analysis Wing), EPA HQs, Lahore.
- xiv. All Deputy Director (Field) / Assistant Director (Field), EPA Punjab. They are hereby nominated as "focal persons" in terms of para 6 (iii) of this order. They are directed to convey said information to the Deputy Director (SAW) for further necessary action at his/her level.
- xv. Mr. Fahad Ahmad, Data Analyst, EPA Punjab with the direction to enable live access to these cameras and proceed with their integration into the centralized monitoring system developed in collaboration with the Punjab Information Technology Board (PITB).
- xvi. The Incharge, Social Media Cell of EPA Punjab.
- xvii. PA to Director General EPA Punjab.