

# PMC Issues Notice for Spreading Pollution | Uttar Pradesh | 25 May 2024

### Why in News?

The Prayagraj Municipal Corporation (PMC) has issued notices to nine departments including Prayagraj Development Authority (PDA), Public Works Department (PWD), North Central Railway (NCR), Jal Nigam for affecting the air quality in Smart City Prayagraj.

# **Key Points**

- The notice includes the writ number from the <u>Department of Environment</u>, <u>Forest</u>, <u>and Climate Change</u> and advises implementing measures such as using <u>green curtains to cover construction sites</u>, regularly <u>spraying water with sprinkler machines</u>, employing mechanized road sweeping, and using mist guns to minimize <u>dust</u>.
- An official from the PMC stated that the rise in <u>air pollution</u> in the city is a result of ongoing construction activities. To address public concerns, notices have been sent to the relevant departments.
  - Failure to comply with the instructions may lead to further enforcement actions in accordance with the regulations.



# Air Pollutants

#### Sulphur Dioxide (SO<sub>2</sub>)





It comes from the consumption of fossil fuels (oil, coal and natural gas). Reacts with water to form acid rain.

Impact: Causes respiratory problems.

# Ozone (O<sub>3</sub>)





Secondary pollutant formed from other pollutants (NOx and VOC) under the action of the sun.

Impact: Irritation of the eye and respiratory mucous membranes, asthma attacks.

#### Nitrogen Dioxide (NO<sub>2</sub>)









Emissions from road transport, industry and energy production sectors. Contributes to Ozone and PM

Impact: Chronic lung disease.

#### Carbon Monoxide (CO)







It is a product of the incomplete combustion of carbon-containing compounds

Impact: Fatigue, confusion, and dizziness due to inadequate oxygen delivery to the brain.

#### Ammonia (NH<sub>3</sub>)







Produced by the metabolism of amino acids and other compounds which contain nitrogen.

**Impact:** Immediate burning of the eyes, nose, throat and respiratory tract and can result in blindness, lung damage.

#### Lead (Pb)





Released as a waste product from extraction of metals such as silver, platinum, and iron from their respective ores.

Impact: Anemia, weakness, and kidney and brain damage.

#### **Particulate Matter (PM)**







PM10: Inhalable particles, with diameters that are generally 10 micrometers and smaller.

PM2.5: Fine inhalable particles, with diameters that are generally 2.5 micrometers and smaller.

Source: Emitted from construction sites, unpaved roads, fields, fires. Impact: Irregular heartbeat, aggravated asthma, decreased lung function.

Note: These major air pollutants are included in the Air quality index for which short-term National Ambient Air Quality Standards are prescribed.



