



## PMC Issues Notice for Spreading Pollution

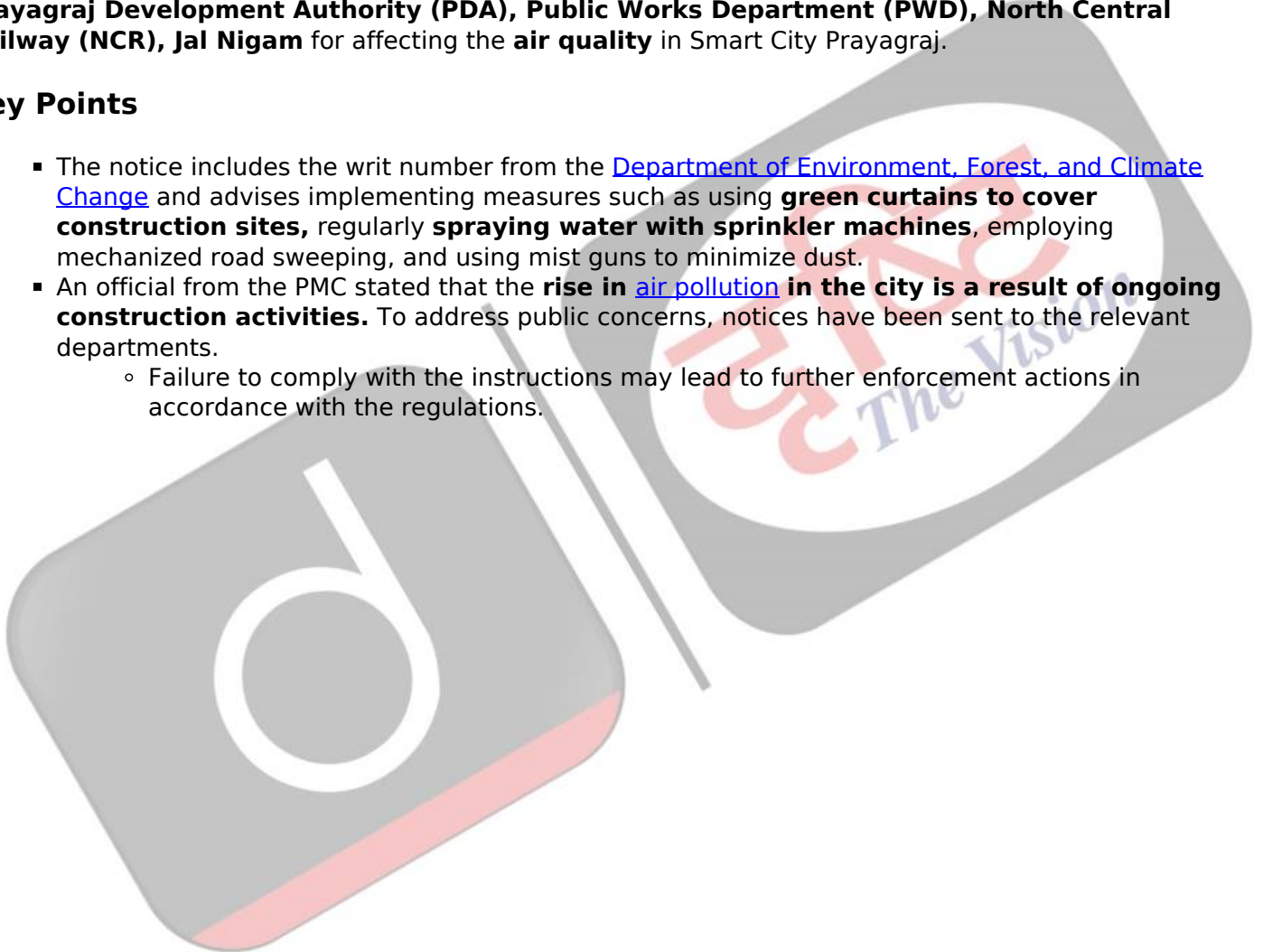
### Why in News?

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 [Department of Environment, Forest, and Climate Change](#) and advises implementing measures such as using **green curtains to cover construction sites**, regularly **spraying water with sprinkler machines**, employing mechanized road sweeping, and using mist guns to minimize dust.
- An official from the PMC stated that the **rise in air pollution 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.

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# 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 (NO<sub>x</sub> 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 formation.

**Impact:** Chronic lung disease.

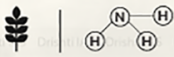
## Carbon Monoxide (CO)



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.



