



## India's Progress Under NCAP

[Source: DTE](#)

India achieved a 26.84% reduction in nationwide **Particulate Matter (PM)** levels from 2019 to 2024, with **National Clean Air Programme (NCAP)** cities showing a **24.45%** improvement due to targeted interventions.

- **Top Performers: Varanasi** led with a 76.4% reduction in pollution, followed by **Moradabad** (58%) and **Kanpur** (51.2%).
  - Among the major cities, **Kolkata** saw a **21.5% reduction in pollution**, driven by stricter industrial regulations and improved public transport.
  - Southern and western cities, like Bengaluru (**8%**) and Chennai (**9.2%**), steadily reduced pollution levels.
- **Challenges: Cities like** Delhi (**PM 2.5** at 107  $\mu\text{g}/\text{m}^3$ ) and Byrnihat in Assam (PM 2.5 at 127.3  $\mu\text{g}/\text{m}^3$ ) remain the most polluted cities.
  - Cities like Gurugram, Faridabad, and Ghaziabad require urgent interventions.
- **Key Contributors:** Industrial emissions, vehicular pollution, and **stubble burning** exacerbate pollution in northern states.
- **NCAP:** Launched in January 2019 by the **Ministry of Environment, Forest and Climate Change (MoEFCC)**, aims to reduce **PM10 and PM2.5 levels** by 20% by 2024-25, with 2017 as the baseline.
  - The target has been revised to **40% reduction in PM10 levels or meeting national standards (60  $\mu\text{g}/\text{m}^3$ )** by 2025-26.

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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.

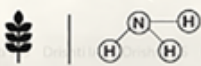
## Carbon Monoxide (CO)



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.

Read more: [Advancing Air Pollution Control in India](#)

PDF Refernece URL: <https://www.drishtias.com/printpdf/indias-progress-under-ncap>

