

## Rs 10,000 Crore Project to Combat Air Pollution in Haryana

## Why in News?

Haryana Chief Secretary reveals that the state government will soon roll out a Rs 10,000-crore project funded by the <u>World Bank</u> to address <u>air pollution</u>.

## **Key Points**

- The project will be implemented in phases. The initial phase focuses on districts falling within the **National Capital Region (NCR)**, with later replication across the entire state.
- Enhancements to Haryana's air quality monitoring infrastructure are part of the project. This
  includes establishing a cutting-edge laboratory and modernizing existing ones.
  - A dedicated program management unit will oversee project implementation.
- Training programs for stakeholders engaged in air quality management are included.
- The project targets transportation, industry, construction, road dust, biomass burning, and household pollution.
  - It aims to promote **cleaner vehicles, incentivize** <u>electric vehicle</u> **adoption,** and phase out older, polluting vehicles.

# 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

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

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









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

Impact: Chronic lung disease.

#### Carbon Monoxide (CO)

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







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

Impact: Fatique, 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.



#### **World Bank**

#### About:

- It was created in 1944, as the International Bank for Reconstruction and **Development (IBRD)** along with the **IMF**. The **IBRD** later became the **World Bank**.
- The World Bank Group is a unique global partnership of five institutions working for



sustainable solutions that reduce **poverty** and build shared prosperity in developing countries.

 $\circ\,$  The  $\pmb{World\ Bank}$  is one of the  $\underline{United\ Nations'}$  specialized agencies.

#### Members:

- It has 189 member countries.
- India is also a member country.

PDF Reference URL: https://www.drishtiias.com/printpdf/rs-10,000-crore-project-to-combat-air-pollution-in-

