

SAFAR

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SAFAR(System of Air Quality and Weather Forecasting and Research)

- It is a **state-of-the-art Air Quality and Weather Forecast System**.
- The giant true color **LED display** gives out **real-time air quality index on 24×7 bases** with **color coding** along with **72-hour advance forecast**.
- The system, first of its kind in the country, is developed indigenously by **Indian Institute of Tropical Meteorology, Pune** and operationalized by **India Meteorological Department (IMD)**.
- The mission mode project has been **implemented in four cities of India** – Delhi, Pune, Mumbai and Ahmedabad as an operational service.
- The system is an integral part of India's first Air Quality Early Warning System operational in Delhi.

Benefits:

- SAFAR will accelerate public awareness and preparedness of air pollution and weather extremes.
- It will also lead to better understanding of linkages among emissions, weather, pollution and climate.
- In addition to regular air quality parameters like PM2.5, PM10, Sulfur Dioxide, Ozone, Nitrogen Oxides, Carbon Monoxide, the **system will also monitor the existence of Benzene, Toluene and Xylene**.
- Besides health, the SAFAR system would benefit cost savings to several other sectors like agriculture, aviation, infrastructure, disaster management skill, tourism etc...
- **Monitored Meteorological Parameters:** *UV Radiation,*

Rainfall, Temperature, Humidity, Wind speed, Wind direction, solar.

- The World Meteorological Organization has recognized SAFAR as a prototype activity on the basis of the high-quality control and standards maintained in its implementation.