

SAFAR-India (MUMBAI)

Indian Institute of Tropical Meteorology, Pune

Ministry of Earth Sciences

Air Quality Forecast for Diwali-2022

The Air Quality Forecast for Diwali-2022 is issued based on the indigenously developed SAFAR-Air Quality Forecasting Framework. The forecast is based on the additional emissions, same as last year, attributed to Diwali firecrackers.

Highlights:

1. In the past week, due to the withdrawal of the monsoon, rainfall was observed in many parts of the city, which kept air quality in good and satisfactory category. However, from 23rd October weather is likely to be dry in Mumbai.
2. With 25% firecracker emissions and background emissions, the air quality is likely to deteriorate to 'Poor' on 23rd and on Diwali day (24th). However, it is expected to worsen further to 'Very Poor' on the 25th of October 2022 due to relatively dry weather conditions and then recover to poor category on 26th.
3. The highest levels of PM_{2.5} are expected between 1 AM to 4 AM on 25th October, i.e., the night of 24th October.
4. EXPECTED MOST POLLUTED AREA in Mumbai: Andheri, BKC-chowk & Malad.

SAFAR-AQI Forecast-MUMBAI				
Date	22 nd Oct	23 rd Oct.	24 th Oct.	25 th Oct.
PM 2.5 concentration($\mu\text{g}/\text{m}^3$)	39	111	118	135
AIR QUALITY INDEX (AQI)	65	270	295	310

AIR QUALITY - MUMBAI

