SAFAR-India (DELHI)

System of Air Quality and Weather Forecasting and Research (SAFAR)
Indian Institute of Tropical Meteorology, Pune
Ministry of Earth Sciences

Air Quality Forecast for Diwali Period-2023

(Issued on 11th November 2023)

Air quality on Diwali Day

The overall air quality of Delhi is in the Poor category on 11th and is predicted to remain in VERY POOR on 12th and 13th with zero fire cracker emissions. If Diwali fire cracker emissions (50% increase in emissions) are considered then air quality is likely to touch LOWER END of SEVERE category on 12th Nov, the Diwali day.

DIWALI EMISSION SCENARIOS

The Air Quality Forecast for the Diwali-2023 period was issued based on the indigenously developed SAFAR-Air Quality Forecasting Framework. The forecast is based on the following two model scenarios:

- **(A) SCENARIO:** 0%: No additional Fire Cracker related Emissions.
- **(B) SCENARIO:** Additional 50% Firecracker emissions on Diwali day.

IMPORTANT NOTE

- (1) Above model forecast does not take into account the impact of any control measures.
- (2) In both scenarios, stubble emissions are included.

	SAFAR-AQI Forecast-DELHI NCT			
Date		11 th Nov.	12 th Nov.	13 th Nov.
	50 % Increase due to Firecracker emissions			
PM 2.5 concentration(μg/m³)		166	261	218
		0 % Firecracker emissions		
PM 2.5 concentration(μg/m³)		92	195	212

