

THE BRIEF REPORT ON AMBIENT AIR QUALITY DURING DIWALI FESTIVAL-2017

The Ambient Air Quality and Noise Level Monitoring during Diwali Festival period was carried out by MPCB at selected locations. The compiled data of ambient air quality (AQI) of pre Diwali, during Diwali and Post Diwali period was compiled with the observations of air AQI is given below.

Ambient Air Quality During Diwali Festivals monitored at CAAQMS-Comparison 2016-2017									
AQI (AIR QUALITY INDEX)									
	A'bad	Mumbai	Nagpur	Nashik	Pune	Dombivali	Airoli	Chandrapur	Solapur
Pre-Diwali									
27.10.2016	115	109	89	64	209	120	103	349	120
Diwali period									
30.10.2016	153	115	110	72	237	178	128	127	166
31.10.2016	120	110	108	70	309	223	144	122	137
01.11.2016	120	130	110	85	286	129	123	185	128
Post Diwali									
02.11.2016	125	98	138	81	251	112	133	163	135
Pre-Diwali									
18.10.2017	90	206	135	103	105	126	93	98	107
Diwali Period									
19.10.2017	116	196	161	178	113	152	98	125	120
20.10.2017	215	219	182	150	124	185	103	150	169
21.10.2017	111	98	127	155	111	113	79	80	120
Post Diwali									
22.10.2017	111	79	120	135	73	112	74	72	105
AQI									
0-50	good								
51-100	satisfactory								
101-200	moderate								
201-300	poor								
301-400	v. poor								
401-500	Severe								

Overall Observation on air quality:

- The Ambient Air Quality Index (AQI) recorded pre-Diwali period in 2016 along with comparison of 2017 AQI reading (shown in bracket) monitored at Continuous Ambient Air Quality Monitoring stations installed at Mumbai, Aurangabad, Nagpur, Nashik, Pune, Dombivali, Airoli, Chandrapur and Solapur indicates, that pre-Diwali air quality Index at Aurangabad was 115(90), Mumbai-109(206), Nagpur-89(135), Nashik-64(103), Pune-209(105), Dombivali-120(126), Airoli (Navi Mumbai)-103(93), Chandrapur -349(98), and Solapur-120(107), which shows the AQI observed at Mumbai, Nagpur and Dombivali at higher side. This may be due to heavy traffic movement and change in wind direction, prevailing calm period, which resulted in low dispersion of pollutants.
- During Diwali period AQI observed in 2017 at all above locations was “moderate” in status. (101-200). Whereas AQI trend observed in 2016 was also moderate except at Pune location at karve Road (277). The overall trend in Air Quality status in Maharashtra is “Moderate”, which shows the less impact of festival celebration and fire cracker bursting as other sources of air pollutions is in existence in all above cities.
- It also confirm that post Diwali AQI observed at Mumbai, Pune, Airoli, Chandrapur have suddenly came back to “satisfactory” status, whereas AQI at Aurangabad, Nagpur, Nashik, Dombivali and Solapur were remained to be “moderate” due to local other sources of ambient air pollutants and weather conditions.