

# AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 6.10.2022

## (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

**Permissible Limits (24 Hour Mean):** PM<sub>10</sub> = 150; PM<sub>2.5</sub> = 35, all units are in µg/m<sup>3</sup> Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

**Today:** 5-10-2022 to 6-10-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 4-10-2022 to 5-10-2022 from 9:00 a.m. to 9:00 a.m.

L O C A T I O N	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)											AVAS VIKAS (ARITHMETIC MEAN DATA)										
	AQI				Meteorological Parameters							AQI				Meteorological Parameters						
	PM <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	W D	T °C		SR W/ m²	RF mm	PM <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	W D	T °C		SR W/ m²	RF mm
								Max	Min										Max	Min		
Today	Yesterday	Today	Yesterday									Today	Yesterday	Today	Yesterday							
4 / 97	25	102	10	54	73	1.3	SE	35.8	24.1	139	Faint drizzle	42	91	23	50	77	0.8	E	36.1	24	92	0
3 / 34	38	127	11	53	73	1.3	SE	35.8	24.1	139	Faint drizzle											
Science Faculty	42	149	12	59	73	1.3	SE	35.8	24.1	139	Faint drizzle											

**Views of AQI Research Group:** A marked reduction in the particulate matter concentrations have resulted on account of closure of industries on the occasion of Dusshera and partly also due to change in Wind Direction. A greater reduction in the levels at Dayalbagh sites may also be due to intensive pre-emptive misting and spraying activities undertaken.

The Air Quality Index values w.r.t. both PM<sub>2.5</sub> and PM<sub>10</sub> are in the *Good* category at all Dayalbagh sites and Avas Vikas.

Data is not available for Sanjay Place since 5:00 am yesterday.

Perused By Way of Information Only.  
Subject To Legalise/Legalese/"Laws of the Land".

Bodla, Agra

Thursday, 06-10-2022, 05:02 PM  
Received, Thursday, 06-10-2022, 01:47 PM

Good 0 - 50	Moderate 51 - 100	Unhealthy for Sensitive Groups 101 - 150	Unhealthy for All 151 - 200	Very Unhealthy for All 201 - 300	Hazardous for All 301 - 400	Hazardous for All 401 - 500
----------------	----------------------	---	--------------------------------	-------------------------------------	--------------------------------	--------------------------------

NOTE: 1 A continuing study conducted as part of Dayalbagh Sigma Six Qualities and Values Model implementation.

2 DEI is using United States Environmental Protection Agency (USEPA) methodology and online calculators to calculate AQI. For fair comparison with UPPCB Sanjay Place Weather Station readings, their PM<sub>2.5</sub> concentration readings are fed in USEPA online calculator for AQI calculation.

3 Formula for AQI calculation for a Pollutant –

$$I = \frac{I_{high} - I_{low}}{C_{high} - C_{low}} * (C - C_{low}) + I_{low}$$

where: I = Air Quality Index; C = Pollutant Concentration (PM<sub>2.5</sub>); C<sub>low</sub> = Concentration Breakpoint ≤C; C<sub>high</sub> = Concentration Breakpoint ≥C;  
I<sub>low</sub> = Index Break point corresponding to C<sub>low</sub>; I<sub>high</sub> = Index Breakpoint corresponding to C<sub>high</sub>; \*Multiplication Sign