

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 13.10.2022

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

Permissible Limits (24 Hour Mean): PM₁₀ = 150; PM_{2.5} = 35, all units are in µg/m³ Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

Today: 12 -10-2022 to 13 -10-2022 from 9:00 a.m. to 9:00 a.m. Yesterday: 11 -10-2022 to 12 -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)											SANJAY PLACE (ARITHMETIC MEAN DATA)										
	AQI				Meteorological Parameters							AQI				Meteorological Parameters						
	PM _{2.5}		PM ₁₀		RH %	WS m/s	W D	T °C		SR W/ m ²	RF mm	PM _{2.5}		PM ₁₀		RH %	WS m/s	W D	T °C		SR W/ m ²	RF mm
	Today	Yesterday	Today	Yesterday				Max	Min			Today	Yesterday	Today	Yesterday				Max	Min		
4 / 97	99	84	47	40	80	1.4	NNE	32.0	21.2	145	0	119	87	70	54	72	0.2	SW	32.8	23.3	6.5* (104)	0
3 / 34	99	84	45	43	80	1.4	NNE	32.0	21.2	145	0											
Science Faculty	117	99	46	44	80	1.4	NNE	32.0	21.2	145	0											

Views of AQI Research Group: The concentrations of particulate matter have increased due to decrease in Wind Speed. However, the Air Quality Index remains in the *Moderate* category at Vidyut Nagar and Prem Nagar but has changed to *Unhealthy for Sensitive Groups* category at Science Faculty w.r.t. PM_{2.5}, while w.r.t. PM₁₀ it remains in the *Good* category at all sites of Dayalbagh.

The pollutant concentrations have increased at Sanjay Place also. The Air Quality index w.r.t. PM_{2.5} has changed to *Unhealthy for Sensitive Groups* category from *Moderate* category, while w.r.t. PM₁₀ it remains in the *Moderate* category. *SR value recorded at Sanjay Place appears to be erroneous. Value in parentheses is the SR value of Avas Vikas, Bodla, Agra.

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

Thursday, 13-10-2022, 02:14 PM
Received, Thursday, 13-10-2022, 01:42 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
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NOTE: 1. Study conducted at Dayalbagh Sanjay Place. 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_{2.5} 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_{2.5}); C_{low} = Concentration Breakpoint ≤C; C_{high} = Concentration Breakpoint ≥C; I_{low} = Index Break point corresponding to C_{low}; I_{high} = Index Breakpoint corresponding to C_{high}; *Multiplication Sign