

# AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 6.11.2022

## (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)

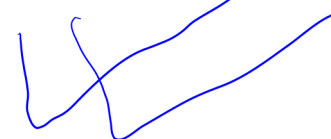
Today: 5-11-2022 to 6-11-2022 from 9:00 a.m. to 9:00 a.m. Yesterday: 4-11-2022 to 5-11-2022 from 9:00 a.m. to 9:00 a.m.

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 <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	WD	T °C		SR W/ m²	RF mm	PM <sub>2.5</sub>		PM <sub>10</sub>		R H %	WS m/s	W D	T °C		SR W/ m²	R F m m
								Max	Min										Max	Min		
	Today	Yesterday	Today	Yesterday								Today	Yesterday	Today	Yesterday							
4 / 97	170	193	98	130	68	0.8	SSE	33.6	20.5	114	0	154	158	105	121	64	0.2	SE	34.4	21.8	125	0
3 / 34	171	197	99	131	68	0.8	SSE	33.6	20.5	114	0											
Science Faculty	189	240	106	144	68	0.8	SSE	33.6	20.5	114	0											

**Views of AQI Research Group:** Concentrations of Particulate matter have decreased in comparison to yesterday due to improvement in meteorological conditions associated with increase in Solar Radiation. The Air Quality Index w.r.t. PM<sub>2.5</sub> remains in the *Unhealthy for All* category at Vidut Nagar and Prem Nagar and has improved to the *Unhealthy for All* category at Science Faculty, while w.r.t. PM<sub>10</sub> it has improved to the *Moderate* category at Vidut Nagar and Prem Nagar and remains in the *Unhealthy for Sensitive Groups* category at Science Faculty.

At Sanjay Place concentrations of particulate matter have marginally decreased, but the Air Quality Index w.r.t. to PM<sub>2.5</sub> remains in the *Unhealthy for All* category and w.r.t. PM<sub>10</sub> remains in the *Unhealthy for Sensitive Groups* category.

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



Sunday, 06-11-2022, 05:27 PM

Received, Sunday, 06-11-2022, 01:34 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