

# AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.11.2022

## (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: 11-11-2022 to 12-11-2022 from 9:00 a.m. to 9:00 a.m. Yesterday: 10-11-2022 to 11-11-2022 from 9:00 a.m. to 9:00 a.m.

L O C A T I O N	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)											L O C A T I O N	SANJAY PLACE AND AVAS VIKAS (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>		RH %	WS m/s	WD	T °C		SR W/m²	RF mm
								Max	Min											Max	Min		
	Today	Yesterday	Today	Yesterday									Today	Yesterday	Today	Yesterday							
4 / 97	153	162	70	85	64	0.9	WNW	30.9	16.1	131	0	Sanjay Place	161	183	93	134	53	1.3	WNW	31.2	17.8	139	0
3 / 34	158	156	72	78	64	0.9	WNW	30.9	16.1	131	0	Avas Vikas	161	166	76	80	62	0.8	ENE	30.5	15.7	78	0
Science Faculty	166	165	74	79	64	0.9	WNW	30.9	16.1	131	0												

**Views of AQI Research Group:** Concentrations of Particulate matter have slightly changed probably due to change in Relative Humidity and Wind Direction. The Air Quality Index w.r.t. PM<sub>2.5</sub> remains in the *Unhealthy for All* category, while w.r.t. PM<sub>10</sub> it remains in the *Moderate* category at all sites of Dayalbagh.

At Sanjay Place, concentrations of Particulate matter have decreased probably due to lower Relative Humidity. The Air Quality Index w.r.t PM<sub>2.5</sub> remains in the *Unhealthy for All* category while w.r.t. PM<sub>10</sub> it has changed to the *Moderate* category. At Avas Vikas, Bodla also there is a marginal change in the particulate matter concentrations, the Air Quality Index w.r.t PM<sub>2.5</sub> remains in the *Unhealthy for All* category and w.r.t. PM<sub>10</sub> it remains in the *Moderate* category.

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Subject To Legalise/Legalese/"Laws of the Land".

Saturday, 12-11-2022, 04:00 PM  
Received, Saturday, 12-11-2022, 12:28 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 –

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

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