

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 1.12.2022

(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: 30-11-2022 to 1-12-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 29-11-2022 to 30-11-2022 from 9:00 a.m. to 9:00 a.m.

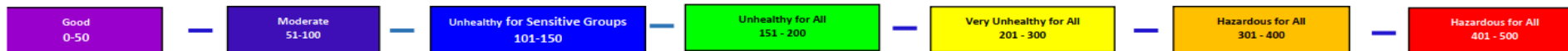
L O C A T I O N	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)											L O C A T I O N	SANJAY PLACE AND AVAS VIKAS (ARITHMETIC MEAN DATA)										
	AQI				Meteorological Parameters								AQI				Meteorological Parameters						
	PM _{2.5}		PM ₁₀		RH %	WS m/s	WD	T °C		SR W/ m ²	RF mm		PM _{2.5}		PM ₁₀		RH %	WS m/s	WD	T °C		SR W/ m ²	R F m m
								Max	Min											Max	Min		
Today	Yesterday	Today	Yesterday									Today	Yesterday	Today	Yesterday								
4 / 97	158 (6%↑)	156	79 (6%↓)	83	68	0.4	WNW	28.4	12.4	98	0	Sanjay Place	177 (0%)	177	130 (13%↓)	146	61	1.0	NW	26.9	14.9	113	0
3 / 34	149 (0%)	149	63 (1%↓)	63	68	0.4	WNW	28.4	12.4	98	0	Avas Vikas	124 (22%↓)	149	60 (23%↓)	70	71	0.5	NE	27.4	13.1	64	0
Science Faculty	158 (3%↑)	157	68 (7%↑)	72	68	0.4	WNW	28.4	12.4	98	0												

Views of AQI Research Group: Concentrations of PM_{2.5} have marginally changed at all sites of Dayalbagh. The Air Quality Index w.r.t. PM_{2.5} remains in the *Unhealthy for Sensitive Groups* category at Prem Nagar and in the *Unhealthy for All* category at Vidyut Nagar and Science Faculty while w.r.t. PM₁₀ it is in the *Moderate* category at all sites of Dayalbagh.

At Sanjay Place, the Air Quality Index w.r.t. PM_{2.5} remains in the *Unhealthy for All* category while w.r.t. PM₁₀ it remains in the *Unhealthy for Sensitive Groups* category. At Avas Vikas, Bodla the Air Quality Index w.r.t. PM_{2.5} is in the *Unhealthy for Sensitive Groups* category and in the *Moderate* category w.r.t. PM₁₀.

Values in parentheses indicate the percentage change in the pollutant concentrations with respect to yesterday. ↑ indicates increase while ↓ indicates decrease in pollutant concentrations. Percentage change has not been shown w.r.t. AQI values as the breakpoints for the different categories are not evenly distributed.

**COLOR
CODE:-**



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_{2.5} 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_{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