

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 26.8.2022 (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)

	Date Today: August 26 – 25 Yesterday August 25 – 24	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date Today: August 26 – 25 Yesterday August 25 – 24	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		Air Quality Index			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	RF mm
Max	Min						Max	Min												
4 / 97	Today	38	24	70	0.9	NNE	38.0	26.3	179	0.5	Today	66	54	69	1.7	S	35.2	27.5	193	04
	Yesterday	29	19	71	1.2	E	36.5	25.3	175	00										
3 / 34	Today	50	22	70	0.9	NNE	38.0	26.3	179	0.5	Yesterday	66	38	69	2.2	NNE	35.5	26.2	188	00
	Yesterday	50	18	71	1.2	E	36.5	25.3	175	00										
Science Faculty	Today	42	19	70	0.9	NNE	38.0	26.3	179	0.5	Yesterday	66	38	69	2.2	NNE	35.5	26.2	188	00
	Yesterday	42	16	71	1.2	E	36.5	25.3	175	00										

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

Views of AQI Research Group: In comparison to yesterday, concentrations of PM_{2.5} have remained constant at Prem Nagar and Science Faculty and increased slightly at Vidyut Nagar. PM₁₀ have marginally increased at all locations of Dayalbagh. The Air Quality Index w.r.t. both PM_{2.5} and PM₁₀ remains in the *Good* category at all three locations of Dayalbagh.

At Sanjay Place, the concentrations of PM_{2.5} have remained unchanged, while PM₁₀ have increased. The Air Quality Index w.r.t. PM_{2.5} remains in the *Moderate* category, while w.r.t. PM₁₀ it has changed from *Good* category to *Moderate* category.

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