

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 13.8.2022 (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 13 – 12 Yesterday August 12 – 11	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date Today: August 13 – 12 Yesterday August 12 – 11	AVAS VIKAS (SIKANDRA) (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	14	76	1.8	SE	32.0	26.6	115	0.5	Today	33	13	80	0.9	NE	35.4	26.6	89	0										
	Yesterday	17	10	72	1.9	SSE	33.8	27.3	139	0																				
3 / 34	Today	50	18	76	1.8	SE	32.0	26.6	115	0.5	Yesterday	33	19	73	1.0	E	33	27.6	102	0										
		Yesterday	33	08	72	1.9	SSE	33.8	27.3	139											0									
Science Faculty	Today	50	17	76	1.8	SE	32.0	26.6	115	0.5																				
	Yesterday	33	10	72	1.9	SSE	33.8	27.3	139	0																				

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 both PM_{2.5} and PM₁₀ have marginally increased at all locations of Dayalbagh. The Air Quality Index w.r.t. PM_{2.5} as well as PM₁₀ remains in the *Good* category at all three locations of Dayalbagh.

At Avas Vikas also, the concentrations of both PM_{2.5} and PM₁₀ have marginally changed. The Air Quality Index w.r.t. both PM_{2.5} and PM₁₀ is in the *Good* category.

Data for Sanjay Place is not available since August 10, 2022.

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