

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.8.2022 (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 16 – 15 Yesterday August 15 – 14	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date Today: August 16 – 15 Yesterday August 15 – 14	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	17	10	79	4.0	N	33.1	25.8	110	7.5	Today	29	13	83	1.1	E	33.4	25.4	91	6										
	Yesterday	42	14	84	1.3	ESE	35.0	27.1	94	26																				
3 / 34	Today	33	10	79	4.0	N	33.1	25.8	110	7.5	Yesterday	33	12	87	0.7	ESE	34.8	27.1	62	NA										
		Yesterday	59	19	84	1.3	ESE	35.0	27.1	94											26									
Science Faculty	Today	29	09	79	4.0	N	33.1	25.8	110	7.5																				
	Yesterday	59	19	84	1.3	ESE	35.0	27.1	94	26																				

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 decreased at all locations of Dayalbagh. The Air Quality Index w.r.t. both PM_{2.5} and PM₁₀ is in the *Good* category at all three locations of Dayalbagh.

At Avas Vikas, 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 is not available for Sanjay Place.

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