

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 11.8.2022 (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	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
	Today:	Air Quality Index			Meteorological Parameters						Today:	AQI			Meteorological Parameters					
	August 11 – 10 Yesterday August 10 – 9	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	August 11 – 10 Yesterday August 10 – 9	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	30	66	2.4	SSE	36.6	28.4	208	0	Today	55	37	54	5.3	NE	38.2	34.4	575	0
	Yesterday	50	15	72	1.5	SSE	37.0	28.4	205	0										
3 / 34	Today	33	29	66	2.4	SSE	36.6	28.4	208	0	Yesterday	66	31	65	2.7	NE	38.8	30.6	245	0
	Yesterday	50	15	72	1.5	SSE	37.0	28.4	205	0										
Science Faculty	Today	29	31	66	2.4	SSE	36.6	28.4	208	0										
	Yesterday	50	15	72	1.5	SSE	37.0	28.4	205	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 PM_{2.5} have further decreased while PM₁₀ has 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 Sanjay Place data was available only till 5:00 pm yesterday (10.8.2022). On the basis of available data, the Air Quality Index w.r.t PM_{2.5} is in the *Moderate* category and w.r.t PM₁₀ in the *Good* 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