

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 24.8.2022 (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 24 – 23 Yesterday August 23 – 22	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	August 24 – 23 Yesterday August 23 – 22	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	25	16	69	1.6	ESE	32.6	27.1	170	00	Today	46	23	70	3.2	SSE	33.5	28.3	182	00										
	Yesterday	46	16	75	2.3	SSE	34.1	26.2	163	2.8																				
3 / 34	Today	38	15	69	1.6	ESE	32.6	27.1	170	00	Yesterday	76	37	69	4.2	NNE	35.3	28.1	182	5.0										
	Yesterday	57	19	75	2.3	SSE	34.1	26.2	163	2.8																				
Science Faculty	Today	38	15	69	1.6	ESE	32.6	27.1	170	00																				
	Yesterday	55	15	75	2.3	SSE	34.1	26.2	163	2.8																				

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 further decreased at all locations of Dayalbagh. The Air Quality Index w.r.t. PM_{2.5} has improved to the *Good* category, while w.r.t. PM₁₀, it remains in the *Good* category at all three locations of Dayalbagh.

At Sanjay Place also, the concentrations of both PM_{2.5} and PM₁₀ have decreased. The Air Quality Index w.r.t. PM_{2.5} has improved from the *Moderate* to the *Good* category, while w.r.t. PM₁₀ it remains 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