

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 3.9.2022 (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							
	September 3 – 2										September 2 – 1										September 2 – 1	September 2 – 1
	Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	September 2 – 1	Yesterday	September 1 – August 31	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	50	26	73	0.9	NE	37.9	27.5	122	00	Today	82	53	72	1.9	SE	36.6	28.4	122	0		
	Yesterday	38	22	72	0.9	E	41.3	27.5	122	Trace												
3 / 34	Today	68	26	73	0.9	NE	37.9	27.5	122	00	Yesterday	74	47	70	1.9	NE	39.1	28.6	140	0.5		
	Yesterday	61	23	72	0.9	E	41.3	27.5	122	Trace												
Science Faculty	Today	80	33	73	0.9	NE	37.9	27.5	122	00	Yesterday	74	47	70	1.9	NE	39.1	28.6	140	0.5		
	Yesterday	57	20	72	0.9	E	41.3	27.5	122	Trace												

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: At Dayalbagh sites, PM_{2.5} and PM₁₀ concentrations have marginally increased at Vidyut Nagar and Prem Nagar. Repair and maintenance activity being carried out at Science Faculty may have contributed to enhancement of the concentrations of PM. The Air Quality Index still remains in the *Good* category w.r.t. PM_{2.5} at Vidyut Nagar, the *Moderate* category at Science Faculty and Prem Nagar, and in *Good* category w.r.t. PM₁₀ at all three Dayalbagh locations.

The concentrations of PM_{2.5} and PM₁₀ have increased at Sanjay Place also. The Air Quality Index remains in the *Moderate* category w.r.t. PM_{2.5} and has changed from *Good* to *Moderate* category w.r.t. PM₁₀.

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