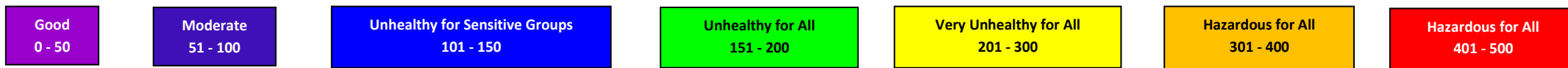


Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 4.9.2022 (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)								
		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												
	Today: September 4 – 3																			
	Yesterday September 3 – 2																			
4 / 97	Today	33	24	60	1.3	N	39.4	28.4	209	0	Today	74	60	60	3.3	SSE	39.6	29.6	217	0
	Yesterday	50	26	73	0.9	NE	37.9	27.5	122	0										
3 / 34	Today	59	21	60	1.3	N	39.4	28.4	209	0	Yesterday	82	53	72	1.9	SE	36.6	28.4	122	0
	Yesterday	68	26	73	0.9	NE	37.9	27.5	122	0										
Science Faculty	Today	59	22	60	1.3	N	39.4	28.4	209	0										
	Yesterday	80	33	73	0.9	NE	37.9	27.5	122	0										



Views of AQI Research Group: At Dayalbagh sites, PM_{2.5} and PM₁₀ concentrations have decreased probably due to favourable meteorological conditions causing dispersal of PM (decrease in Relative Humidity, increase in wind speed and solar radiation). 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} have decreased, while PM₁₀ have increased at Sanjay Place also. The Air Quality Index remains in the *Moderate* category w.r.t. both PM_{2.5} and PM₁₀.

Irrelevant. Compare Like Things (Morning Statistics, on one hand & Evening Statistics, on the other hand, of two consecutive days)

Perused By Way of Information Only,
Subject To Legalise/Legalese/"Laws of the Land".

Sunday, 04-09-2022, 04:40 PM
Received, Sunday, 04-09-2022, 01:20 PM

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 –

$$I = \frac{I_{high} - I_{low}}{C_{high} - C_{low}} * (C - C_{low}) + I_{low}$$

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