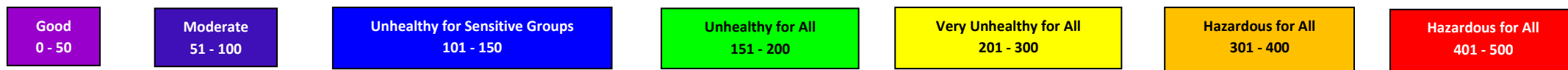


Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 10.8.2022 (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)								
		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: August 10 – 9										Today: August 10 – 9									
	Yesterday August 9 – 8										Yesterday August 9 – 8									
4 / 97	Today	50	15	72	1.5	SSE	37.0	28.4	205	0	Today	66	31	65	2.7	NE	38.8	30.6	245	0
	Yesterday	55	19	76	0.8	ESE	38.3	28.4	194	0										
3 / 34	Today	50	15	72	1.5	SSE	37.0	28.4	205	0										
	Yesterday	82	32	76	0.8	ESE	38.3	28.4	194	0										
Science Faculty	Today	50	15	72	1.5	SSE	37.0	28.4	205	0	Yesterday	97	46	70	1.1	NE	38.2	30.8	199	0
	Yesterday	72	23	76	0.8	ESE	38.3	28.4	194	0										



Views of AQI Research Group: In comparison to yesterday, concentrations of 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 from the *Moderate* to the *Good* category, and remains in the *Good* category w.r.t. PM₁₀ at all three locations of Dayalbagh.

At Sanjay Place also, the concentrations of both PM_{2.5} and PM₁₀ have significantly decreased. However, the Air Quality Index w.r.t. PM_{2.5} still remains 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 Quality 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