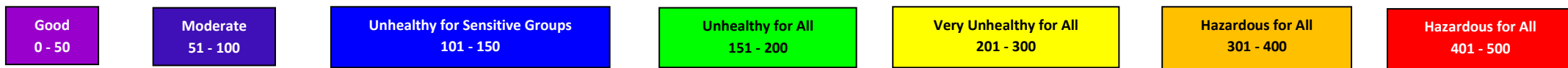


Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 7.8.2022 (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 8 – 7									Today: August 8 – 7										
	Yesterday August 7 – 6									Yesterday August 7 – 6										
4 / 97	Today	76	42	89	1.6	SE	29.6	25.1	75	42.0	Today	63*	26*	84	1.2	E	30	26.7	68	48.5
	Yesterday	80	42	76	0.6	ESE	35.7	27.3	121	3.8										
3 / 34	Today	70	31	89	1.6	SE	29.6	25.1	75	42.0	Yesterday	107	52	71	0.9	N	36.2	29.3	124	0
	Yesterday	99	49	76	0.6	ESE	35.7	27.3	121	3.8										
Science Faculty	Today	82	41	89	1.6	SE	29.6	25.1	75	42.0										
	Yesterday	84	36	76	0.6	ESE	35.7	27.3	121	3.8										



Views of AQI Research Group: In comparison to yesterday, concentrations of PM_{2.5} and PM₁₀ have decreased at all locations of Dayalbagh due to rain. However, the Air Quality Index w.r.t. PM_{2.5} remains in the *Moderate* category, and in the *Good* category w.r.t. PM₁₀ at all three locations of Dayalbagh.

*At Sanjay Place, the data for PM_{2.5} and PM₁₀ was not available for 5 hours (7 - 8 pm yesterday and 4 - 6 am today). 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 –

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

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