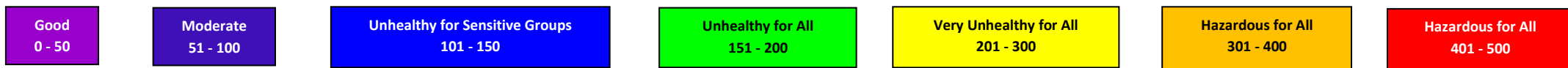


Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 21.7.2022 (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: July 21 – 20											Today: July 21 – 20									
Yesterday July 20 – 19											Yesterday July 20 – 19									
4 / 97	Today: 33	14	79	2.8	S	36.8	27.2	145	Trace		Today	61	41	71	3.1	SE	38.6	28.1	149	0
	Yesterday: 53	25	68	2.5	S	39.5	30.9	208	0		Yesterday									
3 / 34	Today: 57	19	80	2.8	S	36.8	27.0	145	Trace		Yesterday									
	Yesterday: 76	28	68	2.5	S	39.4	30.7	208	0		Today	97	57	59	1.9	SE	41.4	32.3	261	0
Science Faculty	Today: 50	15	81	2.8	S	36.0	27.2	145	Trace		Yesterday									
	Yesterday: 68	25	70	2.5	S	39.3	30.7	208	0											



Views of AQI Research Group: In comparison to yesterday, the concentrations of both PM_{2.5} and PM₁₀ have significantly decreased at all locations of Dayalbagh. The Air Quality Index is in *Good* category w.r.t. PM_{2.5} at Vidyut Nagar and Science Faculty and in *Moderate* category at Prem Nagar, while w.r.t. PM₁₀ it is in the *Good* category at all the three locations of Dayalbagh.

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

The lowering in particulate matter concentrations may probably be due to their removal from the atmosphere by inclusion or dissolution in atmospheric water vapour, causing PM levels to decrease, while Relative Humidity increased.

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

Thursday, 21-07-2022, 03:20 PM
Received, Thursday, 21-07-2022, 12:37 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