

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.7.2022 (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)								
	Today:	Air Quality Index			Meteorological Parameters						Today:	AQI			Meteorological Parameters					
	July 27– 26										Today									
	Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
July 26 – 25						Max	Min			July 26 – 25						Max	Min			
4 / 97	Today	38	13	88	3.2	ENE	31.5	26.9	96	12	Today	50	19	79	1.2	NNW	33.5	27.8	149	19.5
	Yesterday	50	18	86	4.5	SE	32.7	27.0	129	05										
3 / 34	Today	46	17	89	3.2	ENE	30.2	26.9	96	12	Yesterday	57	25	77	3.1	N	35.4	27.8	182	13
	Yesterday	57	21	87	4.6	SE	32.4	26.7	129	05										
Science Faculty	Today	50	17	89	3.2	ENE	32.0	26.9	96	12	Yesterday	57	25	77	3.1	N	35.4	27.8	182	13
	Yesterday	55	16	86	4.5	SE	33.2	27.2	129	05										

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
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Views of AQI Research Group: In comparison to yesterday, concentrations of both PM_{2.5} and PM₁₀ have further decreased at all locations of Dayalbagh. This decrease may be associated to wash-out effects of pollutants by rain showers. The Air Quality Index w.r.t. both PM_{2.5} and PM₁₀ is in the *Good* category at all the three locations of Dayalbagh.

At Sanjay Place also, the concentrations of both PM_{2.5} and PM₁₀ have decreased. The Air Quality Index is in the *Good* category w.r.t. PM_{2.5} and PM₁₀.

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Subject To Legalise/Legalese/"Laws of the Land".

Thursday, 28-07-2022, 02:25 AM
Received, Wednesday, 27-07-2022, 12:23 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