

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 25.7.2022 (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 25– 24										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 24 – 23						Max	Min			July 24 – 23						Max	Min			
4 / 97	Today	63	25	83	5.6	SSE	33.3	27.4	148	05	Today	89*	36	74	2.7	N	35.6	28.4	174	09
	Yesterday	57	22	85	5.0	S	32.9	26.2	147	05										
3 / 34	Today	78	31	84	5.6	SSE	32.2	27.2	148	05	Yesterday	76	33	75	3.1	NNE	35.5	28.2	174	06
	Yesterday	68	26	86	5.0	S	32.9	26.6	147	05										
Science Faculty	Today	72	29	84	5.6	SSE	33.1	27.3	148	05										
	Yesterday	72	26	86	5.0	S	33.6	26.6	147	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
----------------	----------------------	---	--------------------------------	-------------------------------------	--------------------------------	--------------------------------

Views of AQI Research Group: In comparison to yesterday, there is a marginal increase in the concentrations of both PM_{2.5} and PM₁₀ at all locations of Dayalbagh. The Air Quality Index remains in the *Moderate* category w.r.t. PM_{2.5} while w.r.t. PM₁₀ it remains in the *Good* category at all the three locations of Dayalbagh.

*At Sanjay Place the values for PM_{2.5} were available only till 8:00 pm yesterday (24.7.2022). The AQI has been calculated from the mean PM_{2.5} concentration from the available data.

At Sanjay Place also, the concentrations of both PM_{2.5} and PM₁₀ have marginally increased. However, the Air Quality Index still remains in the *Moderate* category w.r.t. PM_{2.5} and in the *Good* category w.r.t PM₁₀.

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


Monday, 25-07-2022, 06:20 PM
Received, Monday, 25-07-2022, 02:52 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 –

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

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