

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 24.7.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean): $PM_{10} = 150$; $PM_{2.5} = 35$, all units are in $\mu g/m^3$ 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 24 – 23										July 24 – 23																		
	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 23 – 22						Max	Min			Max						Min												
4 / 97	Today	57	22	85	5.0	S	32.9	26.2	147	05	Today	76	33	75	3.1	NNE	35.5	28.2	174	06									
	Yesterday	59	27	91	3.2	SSE	33.2	26.2	81	26																			
3 / 34	Today	68	26	86	5.0	S	32.9	26.6	147	05	Yesterday	76	34	81	2.1	NNE	32.8	28.6	106	23									
	Yesterday	72	34	91	3.2	SSE	32.4	26.3	81	26																			
Science Faculty	Today	72	26	86	5.0	S	33.6	26.6	147	05																			
	Yesterday	74	31	92	3.2	SSE	31.9	26.3	81	26																			

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, there is a decrease in the concentrations of both $PM_{2.5}$ and PM_{10} at all locations of Dayalbagh. The Air Quality Index remains in the *Moderate* category w.r.t. $PM_{2.5}$ while w.r.t. PM_{10} it remains in the *Good* category at all the three locations of Dayalbagh.

At Sanjay Place also, the concentrations of both $PM_{2.5}$ and PM_{10} have marginally decreased. 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 PM_{10} .

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

Sunday, 24-07-2022, 04:28 PM
Received, Sunday, 24-07-2022, 12:42 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 $\leq C$; C_{high} = Concentration Breakpoint $\geq C$; I_{low} = Index Break point corresponding to C_{low} ; I_{high} = Index Breakpoint corresponding to C_{high} ; * Multiplication Sign