

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.5.2022 (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: May 27 – 26																			
	Yesterday May 26 – 25																			
4 / 97	Today	80	57	50	2.9	SE	39.8	29.8	172	0	Today	156	107	46	2.2	E	41.9	31.6	205	0
	Yesterday	78	59	55	2.6	ESE	39.4	28.2	168	0										
3 / 34	Today	97	49	52	2.9	SE	39.8	29.0	172	0										
	Yesterday	82	49	56	2.6	ESE	39.4	28.1	168	0										
Science Faculty	Today	99	49	52	3.0	SE	39.7	29.0	173	0	Yesterday	152	94	49	1.7	ENE	40.6	30.2	197	0
	Yesterday	84	48	56	2.6	ESE	39.4	28.1	169	0										

Good - G

Moderate - M

Unhealthy for Sensitive Groups - UHS

Unhealthy for All - UHA

Very Unhealthy for All - VUHA

Hazardous for All - HZA

Hazardous for All - HZA

Views of AQI Research Group: There is a marginal change in the concentrations of PM_{2.5} and PM₁₀ at all the three locations of Dayalbagh in comparison to yesterday. Relative Humidity and Wind Speed have also changed marginally. Wind Direction has changed from ESE to SE. At Dayalbagh, Air Quality Index w.r.t PM_{2.5} is in *Moderate* category while w.r.t PM₁₀ Air Quality Index is in the *Good* category at Prem Nagar and Science Faculty while at Vidyut Nagar, it is in the *Moderate* category.

At Sanjay Place, PM_{2.5} and PM₁₀ concentrations have increased in comparison to yesterday. Wind Direction has changed from ENE to E. Air Quality Index w.r.t PM_{2.5} is in the *Unhealthy for All* category while w.r.t PM₁₀, it is in the *Moderate* category.

Honorary President RS Sabha, Hoonrary Director DEI, Honorary Registrar DEI, Honorary Treasurer DEI.

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Friday, 27-05-2022, 02:37 PM
Received, Friday, 27-05-2022, 12:32 PM

NOTE: 1 A continuous 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}

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