

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 21.3.2022 (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:	AQI		Meteorological Parameters							Today:	AQI		Meteorological Parameters						
	March 21 – 20 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	March 21 – 20 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
							Max	Min									Max	Min		
4 / 97	Today	89	75	36	4.0	N	41.0	22.6	126	0	Today	152	126	33	1.7	ENE	42.1	24.9	161	0
	Yesterday	161	90	56	2.0	ENE	39.5	24.0	125	0										
3 / 34	Today	102	57	38	4.0	N	40.4	22.9	116	0	Yesterday	171	116	49	1.9	SSE	40.3	24.6	153	0
	Yesterday	161	82	58	2.0	ENE	38.9	23.8	109	0										
Science Faculty	Today	105	61	40	4.0	N	39.7	22.2	127	0										
	Yesterday	163	88	60	2.0	ENE	38.9	23.3	114	0										

Views of AQI Research Group: The AQI of both the Particulate Pollutants remained better at Dayalbagh than that recorded at Sanjay Place. There is a significant reduction in AQI at Dayalbagh compared to yesterday perhaps due to change in Wind Direction from ENE to N, doubling up of Wind Speed and reduced Relative Humidity due to increased Maximum Temperature. Vidyut Nagar had the best AQI (**MODERATE** category) in PM_{2.5} and Prem Nagar in PM_{10.0} amongst all the four locations.

Remarks of Revered Chairman-ACE:

Received: Monday, 21 March 2022, 10:57 AM
Perused : Subject to Legalise / Legalese / “Laws of the Land”.



Monday, 21 March 2022, 6:06 PM

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

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}