

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 26.4.2022 (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						
	April 26 – 25 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	April 26 – 25 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
							Max	Min									Max	Min		
							Max	Min									Max	Min		
4 / 97	Today	55	82	28	2.6	S	43.1	29.5	154	0	Today	155	174	29	3.3	SE	44.4	30.8	192	0
	Yesterday	68	75	27	3.4	NNW	42.8	27.9	162	0										
3 / 34	Today	68	55	29	2.6	S	42.4	29.6	150	0	Yesterday	159	156	28	3.4	SE	43.9	29.8	204	0
	Yesterday	84	54	27	3.4	NNW	41.6	28.3	155	0										
Science Faculty	Today	66	57	29	2.6	S	42.4	29.3	154	0	Yesterday	159	156	28	3.4	SE	43.9	29.8	204	0
	Yesterday	84	58	28	3.4	NNW	41.0	27.3	160	0										

Views of AQI Research Group: The AQI at Dayalbagh remains in the MODERATE Category while that at Sanjay Place it is in the UNHEALTHY FOR ALL Category w.r.t both the micron Particulate Pollutants. The decrease in PM_{2.5} AQI at Dayalbagh is perhaps due to change in Wind Direction and increase in Temperatures causing the Atmospheric Boundary Layer (ABL) to expand and result in lower concentration per m³. Despite these two favourable meteorological parameters the AQI at Sanjay Place deteriorated compared to yesterday.

Remarks of Revered Chairman-ACE:

Received: Tuesday, 26 April 2022, 11:00 AM
Perused: Subject to Legalese / Legalise / “Laws of the Land”

Tuesday, 26 April 2022, 4:34 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}