

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.4.2022 (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						
	April 27 – 26	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	April 27 – 26	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
	Yesterday						Max	Min			Yesterday						Max	Min		
	April 26 - 25																			
4 / 97	Today	61	74	28	2.0	SE	44.5	29.1	146	0	Today	154	152	28	2.0	SE	46.0	32.3	197	0
	Yesterday	55	82	28	2.6	S	43.1	29.5	154	0										
3 / 34	Today	74	52	30	2.0	SE	43.0	28.7	149	0	Yesterday	155	174	29	3.3	SE	44.4	30.8	192	0
	Yesterday	68	55	29	2.6	S	42.4	29.6	150	0										
Science Faculty	Today	74	55	31	2.0	SE	43.1	27.9	154	0	Yesterday	155	174	29	3.3	SE	44.4	30.8	192	0
	Yesterday	66	57	29	2.6	S	42.4	29.3	154	0										

Views of AQI Research Group: The AQI at the Dayalbagh sites remained in the *Moderate* Category while that at Sanjay Place was in the *Unhealthy for All* category w.r.t both the micron Particulate Pollutants. The $PM_{2.5}$ concentrations have marginally increased at Dayalbagh compared to yesterday, probably due to change in Wind Direction from South to South-East, decrease in Wind Speed and mild rise in Relative Humidity.

Remarks of Revered Chairman-ACE:

Received: Wednesday, 27 April 2022, 10:45 AM
Perused: Subject to Legalese / Legalise / "Laws of the Land"

Wednesday, 27 April 2022, 5:10 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 $\leq C$, C_{high} =Concentration Breakpoint $\geq C$, I_{low} =Index Break point corresponding to C_{low} , I_{high} =Index Breakpoint corresponding to C_{high}