

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 29.4.2022 (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 29 – 28 Yesterday										Today										April 29 – 28 Yesterday
	April 28 - 27	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	April 28 - 27	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	57	61	26	2.8	S	46.7	29.7	159	0	Today	158	135	27	2.0	NE	47.9	33.2	207	0	
	Yesterday	66	67	25	2.6	S	44.7	29.5	159	0											
3 / 34	Today	74	43	28	2.8	S	46.2	30.1	165	0	Yesterday	163	151	27	2.4	SW	45.8	32.3	198	0	
	Yesterday	82	50	29	2.6	S	43.5	28.5	156	0											
Science Faculty	Today	72	47	28	2.9	S	45.8	29.6	165	0	Yesterday	163	151	27	2.4	SW	45.8	32.3	198	0	
	Yesterday	91	54	28	2.6	S	43.4	27.5	156	0											

Views of AQI Research Group: The AQI at the Dayalbagh sites remained in the *Moderate Category* (within US-EPA 24-hours average permissible limit) and in *Good Category* at Prem Nagar and Science Faculty w.r.t to PM_{10.0}. The pollution concentrations reduced compared to yesterday perhaps due to increased Temperatures, increased Wind Speed. At Sanjay Place it remained in the *Unhealthy for All Category* w.r.t to PM_{2.5} and in the *Unhealthy for Sensitive Groups* w.r.t PM_{10.0}.

Remarks of Revered Chairman-ACE:

Received: Friday, 29 April 2022, 10:59 AM
Perused: Subject to Legalese / Legalise / "Laws of the Land"

Friday, 29 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}