

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 11.4.2022 (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 11 – 10 Yesterday April 10 - 9	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	April 11 – 10 Yesterday April 10 - 9	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	68	69	23	3.3	SSE	45.2	27.0	151	0	Today	155	137	25	3.0	NNE	46.4	30.8	186	0
	Yesterday	63	68	24	2.2	N	46.6	26.6	151	0										
3 / 34	Today	84	51	24	3.3	SSE	43.3	27.3	144	0	Yesterday	153	138	26	1.9	NE	46.8	30.4	187	0
	Yesterday	80	51	26	2.2	N	45.3	26.6	141	0										
Science Faculty	Today	87	54	25	3.3	SSE	43.0	26.5	153	0	Yesterday	153	138	26	1.9	NE	46.8	30.4	187	0
	Yesterday	80	58	26	2.2	N	45.5	25.9	155	0										

Views of AQI Research Group: The Particulate Pollutant concentrations are within the US-EPA permissible levels (24 hour mean) and remained in the MODERATE Category at all the three sites in Dayalbagh while Sanjay Place site remained in the Unhealthy category w.r.t to both PM_{2.5} and PM_{10.0}. Marginal increase in PM_{2.5} across locations is perhaps due to change in Wind Direction and drop in Maximum Temperature levels and Relative Humidity in Dayalbagh.

Remarks of Revered Chairman-ACE:

Received: Monday, 11 April 2022, 10:24 AM
Perused: Subject to Legalese / Legalise / "Laws of the Land"

Monday, 11 April 2022, 4:10 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 ≤C, C_{high}=Concentration Breakpoint ≥C, I_{low}=Index Break point corresponding to C_{low}, I_{high}=Index Breakpoint corresponding to C_{high}