

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.4.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

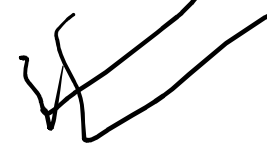
Permissible Limits (24 Hour Mean) : PM₁₀ = 150; PM_{2.5} = 35, all units are in µg/m³ | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
	Today:	Air Quality Index		Meteorological Parameters							Today:	AQI		Meteorological Parameters						
	April 12 – 11 Yesterday April 11 - 10	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	April 12 – 11 Yesterday April 11 - 10	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	80	77	25	2.9	SSE	45.4	28.7	147	0	Today	163	151	27	2.0	NE	46.8	31.2	187	0
	Yesterday	68	69	23	3.3	SSE	45.2	27.0	151	0										
3 / 34	Today	97	55	28	2.9	SSE	44.4	27.7	144	0	Yesterday	155	137	25	3.0	NNE	46.4	30.8	186	0
	Yesterday	84	51	24	3.3	SSE	43.3	27.3	144	0										
Science Faculty	Today	102	61	28	2.9	SSE	43.9	27.2	153	0	Yesterday	155	137	25	3.0	NNE	46.4	30.8	186	0
	Yesterday	87	54	25	3.3	SSE	43.0	26.5	153	0										

Views of AQI Research Group: The AQI at Dayalbagh remained in MODERATE Category (except for Science Faculty which missed achieving the Category by 2 points). The Sanjay Place AQI remained in the UNHEALTHY FOR ALL Category. The increase in AQI of both micron Particles across Dayalbagh and Sanjay Place, compared to yesterday, can be attributed to reduced Wind Speed, increased Relative Humidity. Prem Nagar had the lowest PM_{10.0} AQI and Vidyut Nagar for PM_{2.5}.

Remarks of Revered Chairman-ACE:

Received: Tuesday, 12 April 2022, 10:45 AM
Perused: Subject to Legalese / Legalise / "Laws of the Land"



Tuesday, 12 April 2022, 3:34 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 –

$$I = \frac{I_{\text{high}} - I_{\text{low}}}{C_{\text{high}} - C_{\text{low}}} * (C - C_{\text{low}}) + I_{\text{low}}$$

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}