

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 3.5.2022 (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						
	May 3 – 2										May 3 – 2									
	Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	
	May 2 – 1						Max	Min								Max	Min			
4 / 97	Today	70	61	47	2.9	NNW	43.4	29.6	161	0	Today	155	153	43	3.0	NNE	45.4	31.2	194	0
	Yesterday	57	55	48	2.9	E	42.0	27.2	141	3										
3 / 34	Today	84	44	48	2.9	NNW	43.1	29.4	164	0	Yesterday	155	125	43	3.4	N	44.7	28.1	188	1.25
	Yesterday	68	32	49	3.0	E	41.4	27.2	143	3										
Science Faculty	Today	89	46	48	2.9	NNW	43.0	29.1	162	0	Yesterday	155	125	43	3.4	N	44.7	28.1	188	1.25
	Yesterday	72	35	49	3.0	E	41.4	27.2	143	3										

Views of AQI Research Group: AQI at Dayalbagh remained in the US-EPA 24-hour Permissible Limit. AQI at Prem Nagar and Science w.r.t PM₁₀ continued in the *Good* Category. Changed Wind Direction, lower Wind Speed and weaning effect of Rainfall seem to have caused increase in AQI across all locations for both micron Particulate Pollutants. The AQI at Sanjay Place is in the *Unhealthy for All* Category w.r.t both PM_{2.5} and PM_{10.0}.

Remarks of Revered Chairman-ACE:

Received: Tuesday, 3 May 2022, 11:21 AM
Perused: Subject to Legalese / Legalise / “Laws of the Land”

Tuesday, 3 May 2022, 3:35 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}