

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 22.4.2022 (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 22 – 21 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	April 22 – 21 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
							Max	Min									Max	Min		
							April 21 - 20													
4 / 97	Today	59	74	36	3.1	N	38.0	26.2	79	0	Today	151	161	35	3.4	ESE	39.6	27.7	103	0
	Yesterday	68	72	27	3.6	NNW	43.6	29.0	148	0										
3 / 34	Today	68	51	37	3.1	N	37.2	25.9	80	0	Yesterday	160	149	28	3.3	SE	45	32.3	183	0
	Yesterday	84	52	29	3.6	NNW	42.3	28.7	146	0										
Science Faculty	Today	68	54	37	3.1	N	36.9	25.5	75	0	Yesterday	160	149	28	3.3	SE	45	32.3	183	0
	Yesterday	82	54	29	3.6	NNW	41.8	27.9	153	0										

Views of AQI Research Group: The AQI in Dayalbagh remained in MODERATE Category (within US-EPA 24 hours permissible limit). Across the locations the Solar Radiation reduced due to cloud cover in the last 24 hours (9:00 am yesterday to 9:00 am today). Consequently, the Temperatures dropped, and the Relative Humidity increased. At Dayalbagh, the PM_{2.5} AQI reduced compared to yesterday perhaps due to change in Wind Direction. While the PM_{10.0} AQI remained in the (+/-) 2 points range.

Remarks of Revered Chairman-ACE:

Received: Friday, 22 April 2022, 11:52 AM
Perused: Subject to Legalese / Legalise / “Laws of the Land”



Friday, 22 April 2022, 5:24 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}