

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.4.2022 (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 20 – 19 Yesterday April 19 - 18	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	April 20 – 19 Yesterday April 19 - 18	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	64	26	3.8	NNW	45.5	28.9	149	0	Today	144	134	27	3.5	SE	46.2	32.2	170	0
	Yesterday	66	70	29	2.9	NW	44.9	28.0	149	0										
3 / 34	Today	72	44	26	3.8	NNW	43.7	28.7	139	0	Yesterday	159	151	29	2.1	SE	46.0	31.3	178	0
	Yesterday	84	52	31	3.0	NW	43.6	28.2	149	0										
Science Faculty	Today	68	45	27	3.9	NNW	43.5	28.3	151	0										
	Yesterday	82	54	31	2.9	NW	43.2	27.6	157	0										

Views of AQI Research Group: The Air Quality improved across all locations compared to yesterday. AQI at Dayalbagh remained in MODERATE Category (within US-EPA permissible limits) and improved possibly due to increase in Temperatures, higher Wind Speed and lower Relative Humidity. AQI at Prem Nagar and Science Faculty was in GOOD Category w.r.t PM_{10.0}. Sanjay Place remained in the UNHEALTHY FOR SENSITIVE GROUPS Category.

Remarks of Revered Chairman-ACE: The Solar Radiation in Vidyut Nagar did not change while it reduced in other locations. This should be investigated by Competent Team of Experts, for Resultant Effective Measures, Being Evolved and Implemented with Immediate Effect.

Received: Wednesday, 20 April 2022, 10:48 PM
Perused: Subject to Legalese / Legalise / "Laws of the Land"



Wednesday, 20 April 2022, 5:33 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}