

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 6.5.2022 (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 6 – 5										May 6 – 5									
	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 5 – 4						Max	Min								Max	Min			
4 / 97	Today	76	61	50	2.7	ENE	38.5	28.9	159	0	Today	153	107	45	2.1	ESE	40.2	30.5	187	0
	Yesterday	57	52	54	3.0	SSE	41.3	25.3	142	0										
3 / 34	Today	93	48	51	2.7	ENE	38.3	28.8	172	0	Yesterday	124	115	47	3.6	ENE	44.8	26.2	171	0
	Yesterday	72	35	54	3.0	SSE	41.0	25.3	148	0										
Science Faculty	Today	87	48	52	2.7	ENE	38.2	28.6	161	0	Yesterday	124	115	47	3.6	ENE	44.8	26.2	171	0
	Yesterday	70	35	55	3.0	SSE	41.3	25.1	135	0										

Views of AQI Research Group: The Air Quality in Dayalbagh remained within the US-EPA 24-hour Average Permissible Limit. Though the pollution concentrations for both micron Particulate Pollutants have increased in comparison to the levels recorded yesterday probably due to change in Wind Direction and drop in Maximum Temperature. At Sanjay Place the PM_{2.5} AQI was in *Unhealthy for All Category* and for PM_{10.0} it was in the *Unhealthy for Sensitive Groups Category*.

Remarks of Revered Chairman-ACE: To discuss with Sarpanch Vidyut Nagar on why the PM_{10.0} concentration at Vidyut Nagar is not improving to Good Category like in the case of Prem Nagar and Science Faculty?!

Received: Friday, 6 May 2022, 11:54 AM

Perused: Subject to Legalese / Legalise / “Laws of the Land”

Friday, 6 May 2022, 3:55 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}