

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 17.5.2022 (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)										
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters								
		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		
Max	Min						Max	Min														
	Today: May 17 – 16											Today: May 17 – 16										
	Yesterday May 16 – 15											Yesterday May 16 – 15										
4 / 97	Today	61	88	32	3.9	N	46.3	28.2	156	0	Today	155	263	33	3.1	SE	47.3	30.2	186	0		
	Yesterday	38	56	25	3.9	SSE	48.2	34.6	155	0												
3 / 34	Today	70	58	32	3.9	N	45.5	28.4	163	0												
	Yesterday	50	34	26	3.9	SSE	47.2	34.4	154	0												
Science Faculty	Today	63	57	32	3.9	N	45.2	27.4	153	0	Yesterday	112	123	27	3.8	SE	49.9	36.5	195	0		
	Yesterday	46	31	26	4.0	SSE	46.5	34.3	156	0												

Views of AQI Research Group: Both PM_{2.5} and PM₁₀ levels have increased significantly in comparison to yesterday at all the sites. The Wind Direction at Dayalbagh sites has changed from SSE to N and Relative Humidity has increased. Air Quality at all the Dayalbagh sites w.r.t to PM_{2.5} and PM₁₀ is in the *Moderate* category. There is no change in Wind Direction at Sanjay Place, Wind Speed has decreased and Relative Humidity has increased. AQI at Sanjay Place w.r.t PM_{2.5} is in the *Unhealthy for All* category and w.r.t PM₁₀ is in the *Very Unhealthy for All* category. Air Quality at Dayalbagh is better than Sanjay Place.

Received: Tuesday, 17-05-2022, 12:15 PM
Perused: Subject to Legalese / Legalise / "Laws of the Land"

Tuesday, 17-05-2022, 04:12 PM

Remarks of Revered Chairman-ACE:

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}

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