

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 8.5.2022 (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:										Today:									
	May 8 – 7	Air Quality Index		Meteorological Parameters							May 8 – 7	AQI		Meteorological Parameters						
	Yesterday May 7 – 6	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	Yesterday May 7 – 6	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	68	62	38	3.2	SE	42.9	28.8	152	0	Today	156	124	36	2.2	S	44	29.9	203	0
	Yesterday	72	57	49	3.0	NNE	41.1	27.4	113	Trace										
3 / 34	Today	82	45	38	3.1	SE	42.1	28.7	178	0	Yesterday	152	102	45	2.6	SE	42.8	28.8	152	Trace
	Yesterday	93	45	50	2.8	NNE	41.2	27.0	146	Trace										
Science Faculty	Today	87	50	39	3.2	SE	41.9	28.6	175	0	Yesterday	152	102	45	2.6	SE	42.8	28.8	152	Trace
	Yesterday	91	45	51	2.8	NNE	40.9	26.5	134	Trace										

Views of AQI Research Group: The PM_{2.5} AQI has decreased marginally across locations probably due to increased Solar Radiation & Temperatures, lower Relative Humidity, higher Wind Speed (at Dayalbagh) and change in Wind Direction. The PM_{10.0} AQI at Dayalbagh slipped marginally (except for Prem Nagar) perhaps due to local construction activity. However, overall, AQI in Dayalbagh remained within the US-EPA 24-hour-average Permissible Limit. The AQI at Sanjay Place remained in the *Unhealthy for All* category w.r.t PM_{2.5} and *Unhealthy for Sensitive Groups* w.r.t PM_{10.0}.

Remarks of Revered Chairman-ACE:

Received: Sunday, 8 May 2022, 11:52 AM
Perused: Subject to Legalese / Legalise / “Laws of the Land”

Sunday, 8 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 –

$$I = \frac{I_{\text{high}} - I_{\text{low}}}{C_{\text{high}} - C_{\text{low}}} * (C - C_{\text{low}}) + I_{\text{low}}$$

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}