

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 24.3.2022 (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:	AQI		Meteorological Parameters							Today:	AQI		Meteorological Parameters						
	March 24 – 23 Yesterday March 23 - 22	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	March 24 – 23 Yesterday March 23 - 22	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	129	100	41	2.4	SSE	38.5	24.5	112	0	Today	167	149	38	1.6	ENE	40.8	25.9	151	0
	Yesterday	112	86	42	3.4	SSE	39.1	23.4	136	0										
3 / 34	Today	149	75	44	2.4	SSE	38.2	24.3	112	0	Yesterday	158	131	38	3.6	N	39.8	25.0	171	0
	Yesterday	129	66	45	3.4	SSE	37.7	23.2	117	0										
Science Faculty	Today	154	85	46	2.4	SSE	38.2	23.3	121	0	Yesterday									
	Yesterday	132	70	46	3.4	SSE	37.2	22.5	135	0										

Views of AQI Research Group: AQI w.r.t both PM_{2.5} and PM_{10.0} has deteriorated probably due to decrease in Wind Speed, Solar Radiation and Relative Humidity. The Dayalbagh sites were better than Sanjay Place w.r.t both the Particulate Pollutants.

Remarks of Revered Chairman-ACE:

Received: Thursday, 24 March 2022, 10:38 AM

Thursday, 24 March 2022, PM

Good -G

Moderate- M

Unhealthy for Sensitive Groups- UHS

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}