

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)								
		AQI		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:										Today:									
	March 24 – 23										March 24 – 23									
	Yesterday										Yesterday									
	March 23 - 22										March 23 - 22									
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	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	158	131	38	3.6	N	39.8	25.0	171	0
	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.

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

Thursday, 24 March 2022, PM

Remarks of Revered Chairman-ACE:

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}