

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 18.3.2022 (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 18 - 17 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	March 18 - 17 Yesterday	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	144	111	62	3.1	ENE	37.9	25.5	106	0	Today	196	149	55	2.2	SSE	38.4	26.1	154	0
	Yesterday	134	85	56	3.8	SE	38.1	22.6	123	0										
3 / 34	Today	152	101	64	3.1	ENE	35.9	25.4	111	0	Yesterday	153	121	39	5.8	N	39.1	29.7	382	0
	Yesterday	152	73	58	3.8	SE	37.1	23.2	114	0										
Science Faculty	Today	153	104	67	3.1	ENE	36.1	25.2	120	0	Yesterday	153	121	39	5.8	N	39.1	29.7	382	0
	Yesterday	155	71	60	3.8	SE	36.1	22.6	127	0										

Views of AQI Research Group: Values of PM_{2.5} and PM₁₀ were low till 7:00 pm and increased markedly after that probably due to Holika-Dahan activities in the adjoining areas, besides being influenced by the meteorological parameters. Taking the TWA of the values at Dayalbagh sites, the effect seems to be nullified with no marked change in AQI values.

Remarks of Revered Chairman-ACE:

Received: Friday, 18 March 2022, 11:43 AM

Friday, 18 March 2022, 5:00 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}