

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 21.1.2022 (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						
	Jan 21 -20 Yesterday : Jan 20 - 19	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m²	RF mm	Jan 21 -20 Yesterday: Jan 20 - 19	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m²	RF mm
							Max	Min									Max	Min		
4 / 97	Today	179	178	89	1.4	E	17.4	8.9	36	0	Today	165	140	84	1.0	SE	16.3	7.6	70	0
	Yesterday	249	339	90	1.0	S	13.3	7.6	14	0										
3 / 34	Today	185	174	91	1.3	E	16.9	8.9	46	0	Yesterday	190	245	86	0.6	ESE	11.3	6.2	32	0
	Yesterday	282	410	93	1.0	SSW	12.7	7.1	18	0										
Science Faculty	Today	194	100	93	2.2	WNW	17.1	9.0	40	0	Yesterday	190	245	86	0.6	ESE	11.3	6.2	32	0
	Yesterday	286	163	94	2.0	SSW	12.8	7.0	19	0										

Views of AQI Research Group: Change in Wind Direction, rise in maximum and minimum temperature coupled with the drop in Relative Humidity and increase in Wind Speed seem to have significantly improved the AQI across locations. Compared to Sanjay Place, the Relative Humidity at Dayalbagh continues to be high.

Remarks of Revered Chairman-ACE:

Received: Friday, 21 January 2022, 12:44 PM



Friday, 21 January 2022, 02:29 PM

Good -G

Moderate- M

Unhealthy for Sensitive Groups- US

Unhealthy for All-

Very Unhealthy for All-VUH

Hazardous for All- HZ

Hazardous for All-HZ

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}