

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.12.2021
(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

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)										SANJAY PLACE (ARITHMETIC MEAN DATA)									
		AQI				Meteorological Parameters @ Dayalbagh						AQI				Meteorological Parameters @ Sanjay Place					
		PM _{2.5}		PM ₁₀		Today ----- Yesterday						PM _{2.5}		PM ₁₀		Today ----- Yesterday					
		Today Dec 20 – Dec 19	Yesterday Dec 19 – Dec 18	Today Dec 20 – Dec 19	Yesterday Dec 19 – Dec 18	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm	Today Dec 20 – Dec 19	Yesterday Dec 19 – Dec 18	Today Dec 20 – Dec 19	Yesterday Dec 19 – Dec 18	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	09:00 am – 09:00am	158 UH	161 UH	119 US	103 US	60 ----- 61	2.8 ----- 3.5	WNW ----- WNW	13 ----- 12	44 ----- 47	0 ----- 0	156 UH	129 US	82 M	76 M	54 ----- 52	2.2 ----- 3.7	NE ----- NE	10 ----- 10	117 ----- 114	0 ----- 0
3 / 34	09:00 am – 09:00am	161 UH	162 UH	115 US	98 M	63 ----- 63	2.8 ----- 3.5	WNW ----- WNW	12 ----- 12	64 ----- 62	0 ----- 0										
Science Faculty	09:00 am – 09:00 am	154 UH	165 UH	106 US	91 M	66 ----- 65	3.1 ----- 3.8	NE ----- NE	12 ----- 12	48 ----- 47	0 ----- 0										

Views of AQI Research Group: WNW wind direction is the differentiating factor. Sanjay Place and Faculty of Science(FoS), DEI(Deemed to be University) have nearly the same readings and wind direction (NE). The Relative Humidity of all stations at Dayalbagh is higher compared to Sanjay Place.

Remarks of Revered Chairman-ACE:

Monday, 20 December 2021, 12:26 PM



December 2021,

Good -G

Moderate- M

Sensitive Groups- US

Unhealthy for All-UH

Very Unhealthy for All-VUH

Hazardous for All- H

Hazardous for All-H

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 –

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}

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