

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 1.11.2021 (BASED ON US-EPA AQI STANDARDS)

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)										AVAS VIKAS (SIKANDRA) (ARITHMETIC MEAN DATA)									
		AQI				Meteorological Parameters @ Dayalbagh						AQI				Meteorological Parameters @ Sanjay Place					
		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
		Today Nov 1 – Oct 31	Yesterday Oct 31 – Oct 30	Today Nov 1 – Oct 31	Yesterday Oct 31 – Oct 30							Today Nov 1 – Oct 31	Yesterday Oct 31 – Oct 30	Today Nov 1 – Oct 31	Yesterday Oct 31 – Oct 30						
4 / 97	09:00 am – 09:00am	185 UH	172 UH	142 US	109 US	57	1.9	SSW	25	73	0	311 H	209 VUH	374 H	167 UH	60	0.4	NE	23	128	0
3 / 34	09:00 am – 09:00am	189 UH	177 UH	115 US	93 M	63	2.0	SSW	24	86	0										
Science Faculty	09:00 am – 09:00 am	194 UH	179 UH	119 US	96 M	64	2.0	ENE	23	69	0										

Note : For this report, Dayalbagh AQI has been benchmarked against UPPCB Avas Vikas AQI instead of Sanjay Place AQI (usual practice) as UPPCB Sanjay Place Station has been giving intermittent data (NA for certain durations).

Received - Monday, 1 November 2021, 2:10 PM

Monday, 1 November 2021,

Good- G

Moderate- M

Unhealthy for Sensitive Groups -US

Unhealthy- UH

Very Unhealthy - VUH

Hazardous - 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 -

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

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}