

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 1.12.2021 (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								PM _{2.5}		PM ₁₀							
		Today Dec 1 – Nov 30	Yesterday Nov 30 – Nov 29	Today Dec 1 – Nov 30	Yesterday Nov 30 – Nov 29	RH %	WS m/s	WD	T °C	SR W/ m²	RF mm	Today Dec 1 – Nov 30	Yesterday Nov 30 – Nov 29	Today Dec 1 – Nov 30	Yesterday Nov 30 – Nov 29	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	09:00 am – 09:00am	166 UH	161 UH	109 US	124 US	68	1.4	W	20	48	0	183 UH	176 UH	127 US	116 US	61	1.0	ENE	17	88	0
3 / 34	09:00 am – 09:00am	162 UH	165 UH	110 US	134 US	71	1.4	W	19	52	0										
Science Faculty	09:00 am – 09:00 am	179 UH	168 UH	128 US	144 US	74	3.0	NE	19	44	0										

Views of AQI Group: AQI of all 3 stations in Dayalbagh are better than that at Sanjay Place. This is despite higher RH at Dayalbagh which has been rising consistently over the last few days without much change in temperature levels.

Remarks of GH Today: As a further safeguard increase of misting in all three locations may be taken recourse to. (Prem Nagar readings are slightly better than the other two locations.)

Received - Wednesday, 1 December 2021, 2:57 PM

Wednesday, 1 December 2021, 5:24 PM

Good G

Moderate M

Unhealthy for 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 -

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

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}