

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.10.2021
(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)										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 Oct 16 - Oct 15	Yesterday Oct 15 - Oct 14	Today Oct 16 - Oct 15	Yesterday Oct 15 - Oct 14	RH %	WS m/s	WD	T °C	SR W/ m ²	RF mm	Today Oct 16 - Oct 15	Yesterday Oct 15 - Oct 14	Today Oct 16 - Oct 15	Yesterday Oct 15 - Oct 14	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	09:00 am – 09:00am	164 UH	115 US	102 US	84 M	53	1.6	WNW	30	117	0	176 UH	161 UH	88 M	72 M	46	1.1	SSW	28	177	0
3 / 34	09:00 am – 09:00am	168 UH	152 UH	79 M	63 M	55	1.6	WNW	29	105	0										
Science Faculty	09:00 am – 09:00 am	176 UH	155 UH	92 M	71 M	58	2.2	NE	28	91	0										

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 (PM2.5), 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}