

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 13.10.2021 (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		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 Oct 13 - Oct 12	Yesterday Oct 12 - Oct 11	Today Oct 13 - Oct 12	Yesterday Oct 12 - Oct 11							Today Oct 13 - Oct 12	Yesterday Oct 12 - Oct 11	Today Oct 13 - Oct 12	Yesterday Oct 12 - Oct 11								
4 / 97	09:00 am – 09:00am	102 US	93 M	70 M	70 M	54	1.6	SSW	31	124	0	147 US	153 UH	67 M	64 M	47	2.6	SSW	30	180	0		
3 / 34	09:00 am – 09:00am	117 US	107 US	53 M	51 M	54	1.6	S	31	107	0			67 M	64 M								
Science Faculty	09:00 am – 09:00 am	119 US	107 US	61 M	55 M	56	2.1	W	30	102	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 (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}