

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 5.10.2021

(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 5- Oct 4	Yesterday Oct 4- Oct 3	Today Oct 5- Oct 4	Yesterday Oct 4- Oct 3	RH %	WS m/s	WD	T °C	SR W/ m ²	RF mm	Today Oct 5- Oct 4	Yesterday Oct 4- Oct 3	Today Oct 5- Oct 4	Yesterday Oct 4- Oct 3	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	09:00 am – 09:00am	53 M	42 G	31 G	26 G	66	2.2	SW	33	113	0	82 M	55 M	71 M	31 G	60	1.5	ESE	NA	183	0
3 / 34	09:00 am – 09:00am	66 M	59 M	23 G	20 G	67	2.2	SW	32	97	0										
Science Faculty	09:00 am – 09:00 am	61 M	57 M	24 G	20 G	69	2.0	WNW	32	108	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}