

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 22.09.2021

Permissible Limits: PM₁₀ = 100; PM_{2.5} = 60, 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 Sep 22- Sep 21	Yesterday Sep 21- Sep 20	Today Sep 22- Sep 21	Yesterday Sep 21- Sep 20	RH %	WS m/s	WD	T °C	SR W/ m ²	RF mm	Today Sep 22- Sep 21	Yesterday Sep 21- Sep 20	Today Sep 22- Sep 21	Yesterday Sep 21- Sep 20	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	12:00 noon – 12:00 noon	84 S	66 S	46 G	32 G	87	2.7	SE	27	70	28.5	91 S	70 S	172 M	37 G	80	1.2	ESE	NA	98	26.8
3 / 34	12:00 noon – 12:00 noon	93 S	72 S	44 G	29 G	89	2.9	SE	27	64	28.5										
Scienc e Faculty	12:00 noon – 12:00 noon	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.5										

Good- G

Satisfactory - S

Moderate- M

Poor- P

Very Poor- VP

Severe - Sv

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}