

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 18.08.2021

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 On The Basis of PM _{2.5} Concentration		Meteorological Parameters @ Dayalbagh						AQI On The Basis of PM _{2.5} Concentration		Meteorological Parameters @ Sanjay Place					
		Today Aug 18-Aug 17	Yesterday Aug 17-Aug 16	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm	Today Aug 18-Aug 17	Yesterday Aug 17-Aug 16	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	12:00 noon – 12:00 noon	99 Satisfactory	82 Satisfactory	59	2.5	SSE	35	166	0	112 Moderate	144 Moderate	53	1.9	S	29	234	0
3 / 34	12:00 noon – 12:00 noon	89 Satisfactory	68 Satisfactory	59	2.4	SE	35	143	0								
Science Faculty	12:00 noon – 12:00 noon	93 Satisfactory	68 Satisfactory	61	2.9	SW	35	155	0								

22 October 2021

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}