

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.11.2021 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

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 Nov 27 – Nov 26	Yesterday Nov 26 – Nov 25	Today Nov 27 – Nov 26	Yesterday Nov 26 – Nov 25	RH %	WS m/s	WD	T °C	SR W/ m ²	RF mm	Today Nov 27 – Nov 26	Yesterday Nov 26 – Nov 25	Today Nov 27 – Nov 26	Yesterday Nov 26 – Nov 25	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	09:00 am – 09:00am	162 UH	200 UH	103 US	120 US	64	1.8	SE	21	59	0	178 UH	196 UH	127 US	152 UH	59	0.7	SSE	18	115	0
3 / 34	09:00 am – 09:00am	160 UH	217 VUH	108 US	105 US	66	1.8	SE	21	66	0										
Science Faculty	09:00 am – 09:00 am	180 UH	252 VUH	136 US	93 M	69	1.7	NE	21	51	0										

Views of AQI Group: AQI today is better than yesterday (except for FoS PM10 AQI). This improvement is despite gradually increasing RH over past few days. FoS witnessed different wind direction in last 24 hrs and perhaps thus has the highest readings.

Remarks of GH Today:

Received - Saturday, 27 November 2021, 2:25 PM

Saturday, 27 November 2021,

Good G

Moderate M

Unhealthy for Sensitive Groups US

Unhealthy for All UH

Very Unhealthy for All VUH

Hazardous for All H

Hazardous for All 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}