

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.12.2021 (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 (Today/ Yesterday)						AQI				Meteorological Parameters @ Sanjay Place (Today/ Yesterday)					
		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 Dec 12 – Dec 11	Yesterday Dec 11 – Dec 10	Today Dec 12 – Dec 11	Yesterday Dec 11 – Dec 10							Today Dec 12 – Dec 11	Yesterday Dec 11 – Dec 10	Today Dec 12 – Dec 11	Yesterday Dec 11 – Dec 10						
4 / 97	09:00 am – 09:00am	158 UH	176 UH	110 US	125 US	63 71	1.1 1.9	SW NW	17 18	53 46	0 0										
3 / 34	09:00 am – 09:00am	153 UH	172 UH	108 US	127 US	67 72	1.1 1.9	SSW NW	16 17	55 50	0 0	158 UH	160 UH	89 M	93 M	56 62	0.9 1.7	E ENE	14 15	115 103	0 0
Science Faculty	09:00 am – 09:00 am	156 UH	172 UH	115 US	128 US	70 77	2.7 3.4	NE NE	16 16	48 46	0 0										

Views of AQI Group: Lower Relative Humidity (RH) at both sites appears to have favoured lowering of PM concentrations, marginally improving the Air Quality over yesterday. RH at Dayalbagh continues to be higher than Sanjay Place providing some explanation to the higher readings at Dayalbagh compared to Sanjay Place.

Day, 12 December 2021, 11:12 AM

Remarks of Reversed Chairman-ACE:

December 2021,

Good G

Moderate M

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}