

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 5.12.2021 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean): PM<sub>10</sub> = 150; PM<sub>2.5</sub> = 35, all units are in µg/m<sup>3</sup>

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 <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	WD	T °C	SR W/m <sup>2</sup>	RF mm	PM <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	WD	T °C	SR W/m <sup>2</sup>	RF mm
		Today Dec 5 – Dec 4	Yesterday Dec 4 – Dec 3	Today Dec 5 – Dec 4	Yesterday Dec 4 – Dec 3							Today Dec 5 – Dec 4	Yesterday Dec 4 – Dec 3	Today Dec 5 – Dec 4	Yesterday Dec 4 – Dec 3						
4 / 97	09:00 am – 09:00am	153 UH	166 UH	101 US	126 US	70	1.2	SSW	21	53	0										
3 / 34	09:00 am – 09:00am	154 UH	165 UH	106 US	110 US	74	1.2	SSW	20	59	0	164 UH	163 UH	90 M	87 M	64	0.9	E	18	115	0
Science Faculty	09:00 am – 09:00 am	163 UH	168 UH	101 US	134 US	76	2.5	NE	20	51	0										

Views of AQI Group:

day, 5 December 2021, 12:35 PM

Remarks of GH Today:

ember 2021,

Good G

Moderate M

or 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<sub>2.5</sub> concentration readings are fed in USEPA online calculator for AQI calculation.

3 Formula for AQI calculation for a Pollutant -

where, I = Air Quality Index, C=Pollutant Concentration (PM<sub>2.5</sub>), C<sub>low</sub>=Concentration Breakpoint ≤C, C<sub>high</sub>=Concentration Breakpoint ≥C, I<sub>low</sub>=Index Break point corresponding to C<sub>low</sub>, I<sub>high</sub>=Index Breakpoint corresponding to C<sub>high</sub>

$$I = \frac{I_{high} - I_{low}}{C_{high} - C_{low}} * (C - C_{low}) + I_{low}$$