

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 14.10.2021 (BASED ON US-EPA AQI STANDARDS)

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 Oct 14 - Oct 13	Yesterday Oct 13 - Oct 12	Today Oct 14 - Oct 13	Yesterday Oct 13 - Oct 12							Today Oct 14 - Oct 13	Yesterday Oct 13 - Oct 12	Today Oct 14 - Oct 13	Yesterday Oct 13 - Oct 12								
4 / 97	09:00 am – 09:00am	117 US	102 US	80 M	70 M	49	3.0	NW	29	126	0	149 US	147 US	63 M	67 M	43	3.6	S	28	191	0		
3 / 34	09:00 am – 09:00am	132 US	117 US	59 M	53 M	49	3.0	NW	29	110	0			63 M	67 M								
Science Faculty	09:00 am – 09:00 am	144 US	119 US	66 M	61 M	51	2.6	SE	28	101	0												

Good- G

Moderate- M

Unhealthy for Sensitive Groups -US

Unhealthy- UH

Very Unhealthy - VUH

Hazardous - 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 -

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

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>