

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 23.12.2021 (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>		Today ----- Yesterday						PM <sub>2.5</sub>		PM <sub>10</sub>		Today ----- Yesterday					
		Today Dec 23 – Dec 22	Yesterday Dec 22 – Dec 21	Today Dec 23 – Dec 22	Yesterday Dec 22 – Dec 21	RH %	WS m/s	WD	T °C	SR W/m <sup>2</sup>	RF mm	Today Dec 23 – Dec 22	Yesterday Dec 22 – Dec 21	Today Dec 23 – Dec 22	Yesterday Dec 22 – Dec 21	RH %	WS m/s	WD	T °C	SR W/m <sup>2</sup>	RF mm
4 / 97	09:00 am – 09:00am	160 UH	215 VUH	114 US	130 US	65	1.1	SSE	17	50	0										
3 / 34	09:00 am – 09:00am	198 UH	242 VUH	106 US	141 US	69	1.1	SSE	16	59	0	195 UH	229 VUH	162 UH	660 H	50	0.7	W	13	105	0
Science Faculty	09:00 am – 09:00 am	222 VUH	231 VUH	99 M	103 US	72	1.5	SSE	16	46	0					60	0.8	ENE	12	110	0
						71	2.0	NNE	14	47	0										

**Views of AQI Research Group:** Broadly, of the 6 AQI data points of Dayalbagh, in 5, Dayalbagh fairs better than Sanjay Place. Improvement in PM<sub>2.5</sub> in Science Faculty is less compared to Vidyut Nagar and Prem Nagar, perhaps because of the increased field activity in the vicinity of Science Faculty. Without the Organic Dasparni Spray the readings could have been higher.

**Remarks of Reversed Chairman-ACE:**

Thursday, 23 December 2021, 12:22 PM

December 2021,

Good - G

Moderate - M

Sensitive Groups- US

Unhealthy for All-UH

Very Unhealthy for All-VUH

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 –

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

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>