

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.8.2022 (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> Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	AVAS VIKAS (SIKANDRA) (ARITHMETIC MEAN DATA)								
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters						
		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
Max	Min						Max	Min												
	Today: August 12 – 11																			
	Yesterday August 11 – 10																			
4 / 97	Today	38	30	66	2.4	SSE	36.6	28.4	208	0	Today	33	19	73	1.0	E	33	27.6	102	0
	Yesterday	50	15	72	1.5	SSE	37.0	28.4	205	0										
3 / 34	Today	33	29	66	2.4	SSE	36.6	28.4	208	0	Yesterday	33	19	67	1.2	ENE	37.3	28.6	157	0
	Yesterday	50	15	72	1.5	SSE	37.0	28.4	205	0										
Science Faculty	Today	29	31	66	2.4	SSE	36.6	28.4	208	0										
	Yesterday	50	15	72	1.5	SSE	37.0	28.4	205	0										

Good 0 - 50	Moderate 51 - 100	Unhealthy for Sensitive Groups 101 - 150	Unhealthy for All 151 - 200	Very Unhealthy for All 201 - 300	Hazardous for All 301 - 400	Hazardous for All 401 - 500
----------------	----------------------	---	--------------------------------	-------------------------------------	--------------------------------	--------------------------------

**Views of AQI Research Group:** In comparison to yesterday, concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have further decreased at all locations of Dayalbagh. The Air Quality Index w.r.t. PM<sub>2.5</sub> as well as PM<sub>10</sub> remains in the *Good* category at all three locations of Dayalbagh.

At Avas Vikas, the concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have not changed. The Air Quality Index w.r.t. both PM<sub>2.5</sub> and PM<sub>10</sub> is in the *Good* category.

NOTE: 1 A continuing 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>; \*Multiplication Sign