

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 8.4.2022 (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	SANJAY PLACE (ARITHMETIC MEAN DATA)								
	Today:	Air Quality Index		Meteorological Parameters							Today:	AQI		Meteorological Parameters						
	April 8 – 7 Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	April 8 – 7 Yesterday	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		
4 / 97	Today	82	78	24	1.9	N	43.2	25.1	152	0	Today	161	147	26	2.3	NE	44.3	38.3 *	189	0
	Yesterday	82	74	26	2.0	SSE	42.8	23.7	140	0										
3 / 34	Today	99	57	27	1.9	N	41.8	24.4	140	0	Yesterday	163	145	27	1.8	NE	43.9	26.4	178	0
	Yesterday	102	57	30	2.0	SSE	41.6	24.0	135	0										
Science Faculty	Today	112	63	27	1.9	N	41.8	23.5	156	0										
	Yesterday	107	63	30	2.0	SSE	41.8	23.0	145	0										

**Views of AQI Research Group:** The AQI at Dayalbagh remained better than that at Sanjay Place. In Dayalbagh, compared to yesterday, the AQI has decreased for most data points except for marginal increase in PM<sub>2.5</sub> at Science Faculty & Prem Nagar and in PM<sub>10.0</sub> at Vidyut Nagar. The reduction in AQI can be attributed to change in Wind Direction, decrease in Relative Humidity and increase in Maximum Temperature. \* Subject to further checks and clarifications. Including misting by DEI and spraying of Dashparni Organic Spray by SNC.

Remarks of Revered Chairman-ACE:

Received: Friday, 8 April 2022, 10:24 AM

Perused: Subject to Legalese / Legalise / "Laws of the Land"

Friday, 8 April 2022, 4:34 PM

Good -G

Moderate- M

Unhealthy for Sensitive Groups- UHS

Unhealthy for All- UHA

Very Unhealthy for All- VUHA

Hazardous for All- HZA

Hazardous for All- HZA

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>