

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 28.2.2022 (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)								
		AQI		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												
4 / 97	Today	91	53	67	3.3	E	27.5	12.2	81	0	Today	115	72	60	3.3	N	27.2	12.9	135	0
	Yesterday	89	53	72	4.0	N	25.5	14.0	77	0		Yesterday	107	91	53	5.8	SSE	25.9	19.1	328*
3 / 34	Today	99	46	68	3.3	E	26.9	12.5	96	0	Yesterday									
	Yesterday	84	40	74	4.0	N	24.6	14.2	88	0										
Science Faculty	Today	91	44	71	3.3	E	26.9	12.5	94	0	Yesterday									
	Yesterday	80	39	75	4.0	N	25.0	14.0	84	0										

**Views of AQI Research Group:** Seventh day in a row the AQI at Dayalbagh remained better than that at Sanjay Place for both Particulate Pollutants. At Dayalbagh, the Pollutant Concentrations are within the US-EPA permissible levels but have mildly increased compared to yesterday, probably due to change in Wind Direction from N to E and slight decrease in Wind Speed. It could also be an effect of the increased activity in Dayalbagh on a Sunday (yesterday the evening shift field work was @ Punjabi Farm). Similarly, the reduction in PM10.0 at Sanjay Place could be the Sunday-effect.

\* The Sanjay Place values shown under the head 'Yesterday' pertain to only the daylight hours as the UPPCB server systems were not operational after 5 pm the previous day.

Remarks of Revered Chairman-ACE:

Received: Monday, 28 February 2022, 1:39 PM

Monday, 28 February 2022,

Good- G

Moderate- M

Unhealthy for Sensitive Groups- US

Unhealthy for All-

Very Unhealthy for All-VUH

Hazardous for All- HZ

Hazardous for All-HZ

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 (PM2.5), 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>