

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 11.5.2022 (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:										Today:									
	May 11 – 10	Air Quality Index		Meteorological Parameters							May 11 – 10	AQI		Meteorological Parameters						
	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	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	
	May 10 – 9						Max	Min								Max	Min			
4 / 97	Today	68	42	50	2.6	S	40.0	29.9	143	0	Today	132	92	44	2.9	N	43.0	31.7	187	0
	Yesterday	72	44	50	3.0	SSE	40.9	30.0	130	0										
3 / 34	Today	84	33	51	2.6	S	39.9	29.7	175	0	Yesterday	147	97	45	3.4	S	43.5	31.0	189	0
	Yesterday	91	36	50	3.0	SSE	40.0	29.8	161	0										
Science Faculty	Today	84	34	51	2.6	S	39.8	29.2	166	0	Yesterday	147	97	45	3.4	S	43.5	31.0	189	0
	Yesterday	95	39	50	3.0	SSE	40.5	29.7	153	0										

**Views of AQI Research Group:** The PM<sub>2.5</sub> and PM<sub>10.0</sub> AQI has decreased marginally across all locations probably due to change in Wind Direction. AQI w.r.t to PM<sub>2.5</sub> at the three Dayalbagh sites is in the *Moderate Category* while w.r.t to PM<sub>10.0</sub> all the three locations are in the *GOOD Category*.

Remarks of Revered Chairman-ACE:

Received: Wednesday, 11 May 2022, 12:42 PM  
Perused: Subject to Legalese / Legalise / “Laws of the Land”

Wednesday, 11 May 2022, 3:35 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>