

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 13.4.2022 (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 13 – 12 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 13 – 12 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		
							Max	Min									Max	Min		
4 / 97	Today	87	84	30	2.9	SSE	43.3	26.7	130	0	Today	172	157	29	2.4	SSE	44.3	27.1	203	0
	Yesterday	80	77	25	2.9	SSE	45.4	28.7	147	0										
3 / 34	Today	115	63	32	2.9	SSE	42.1	27.1	124	0	Yesterday	163	151	27	2.0	NE	46.8	31.2	187	0
	Yesterday	97	55	28	2.9	SSE	44.4	27.7	144	0										
Science Faculty	Today	112	66	33	2.9	SSE	41.5	26.5	126	0	Yesterday	163	151	27	2.0	NE	46.8	31.2	187	0
	Yesterday	102	61	28	2.9	SSE	43.9	27.2	153	0										

**Views of AQI Research Group:** For both SP and AV there is missing data for both PM values and also the met parameters, hence reported values are not true 24 h means.

PM levels have increased at the DB sites, but the levels remained within the permissible levels. Levels might have increased due to the slight overcast condition (as evidenced by decrease in SR ) and Increase in RH.

**Remarks of Revered Chairman-ACE:**

**Received: Wednesday, 13 April 2022, PM**

**Perused: Subject to Legalese / Legalise / “Laws of the Land”**

**Wednesday, 13 April 2022, 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 –

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

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>