

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.5.2022 (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  Today:  May 12 – 11  Yesterday  May 11 – 10	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date  Today:  May 12 – 11  Yesterday  May 11 – 10	SANJAY PLACE (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		
4 / 97	Today	66	38	51	3.0	N	42.5	30.8	137	0	Today	132	91	46	3.1	N	45	32.1	187	0
	Yesterday	68	42	50	2.6	S	40.0	29.9	143	0										
3 / 34	Today	87	33	52	3.0	N	42.9	30.6	168	0	Yesterday	132	92	44	2.9	N	43.0	31.7	187	0
	Yesterday	84	33	51	2.6	S	39.9	29.7	175	0										
Science Faculty	Today	89	34	52	3.0	N	43.9	30.7	159	0	Yesterday	132	92	44	2.9	N	43.0	31.7	187	0
	Yesterday	84	34	51	2.6	S	39.8	29.2	166	0										

**Views of AQI Research Group:** PM<sub>2.5</sub> and PM<sub>10</sub> concentrations have marginally changed at the Dayalbagh sites, probably attributable 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</sub> all the three locations are in the *Good* category. Air Quality at Dayalbagh is better than Sanjay Place where AQI w.r.t PM<sub>2.5</sub> is in the *Unhealthy for Sensitive Groups* category and in the *Moderate* Category w.r.t PM<sub>10</sub>.

**Remarks of Revered Chairman-ACE:**

**Received: Thursday, 12 May 2022, 12:34 PM**

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

**Thursday, 12 May 2022, 03:56 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>