

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 17.4.2022 (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 17 – 16 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 17 – 16 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	59	66	28	2.6	SSW	43.7	25.9	142	0	Today	152	135	28	2.5	SE	44.6	29.6	195	0
	Yesterday	55	69	28	2.9	ENE	43.3	27.6	128	0										
3 / 34	Today	70	44	28	2.6	SSW	43.2	26.2	147	0	Yesterday	155	152	29	2.7	SE	44.7	30.2	179	0
	Yesterday	68	48	29	2.9	ENE	42.4	27.2	139	0										
Science Faculty	Today	72	50	29	2.6	SSW	43.1	24.9	158	0										
	Yesterday	61	48	30	3.0	ENE	42.5	26.4	150	0										

**Views of AQI Research Group:** The AQI at Dayalbagh remained within the US-EPA 24-hours Permissible Limits. PM10.0 AQI at Prem Nagar and Science Faculty remained in GOOD Category while rest of AQI data points were in the MODERATE Category. Change in Wind Direction, minor increase in Maximum Temperature and mild reduction in Relative Humidity seem to be the Meteorological reasons for better Air Quality at Dayalbagh. The PM2.5 AQI at Sanjay Place remained in UNHEALTHY FOR ALL category and PM10.0 AQI improved one notch compared to yesterday, to UNHEALTHY FOR SENSITIVE GROUPS Category.

**Remarks of Revered Chairman-ACE:**

**Received: Sunday, 17 April 2022, 12:05 PM**  
**Perused: Subject to Legalese / Legalise / “Laws of the Land”**



**Sunday, 17 April 2022, 3:34 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 (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>