

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 13.2.2022 (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)								
	Today:										Today:									
	Feb 13 – 12	AQI		Meteorological Parameters							Feb 13 – 12	AQI		Meteorological Parameters						
	Yesterday Feb 12 - 11	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	Yesterday Feb 12 - 11	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	153	84	61	1.7	S	28.0	10.8	82	0	Today	153	142	57	1.5	E	24.6	11.5	135	0
	Yesterday	95	59	62	3.3	WNW	26.0	11.3	73	0										
3 / 34	Today	157	86	68	1.7	S	24.6	10.3	102	0	Yesterday	93	97	55	2.7	W	23	10.3	130	0
	Yesterday	147	61	64	3.2	WNW	23	11.6	98	0										
Science Faculty	Today	154	74	70	1.7	S	24.2	10.0	74	0	Yesterday									
	Yesterday	119	58	67	3.3	WNW	23.0	11.2	73	0										

**Views of AQI Research Group:** The AQI at Dayalbagh remained better than that at Sanjay Place. PM<sub>10.0</sub> at Dayalbagh was in 'MODERATE' category while at Sanjay Place it was in 'UNHEALTHY FOR SENSITIVE GROUPS' category. Increased Temperature changed Wind Direction & reduced Wind Speed seem to be the cause of rising AQI across all locations.

**Remarks of Revered Chairman-ACE:**

**Received: Sunday, 13 February 2022, 11:59 AM**

**Sunday, 13 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 (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>