

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 23.8.2022 (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					
	August 23 – 22  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	August 23 – 22  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	46	16	75	2.3	SSE	34.1	26.2	163	2.8	Today	76	37	69	4.2	NNE	35.3	28.1	182	5.0
	Yesterday	42	19	79	0.9	ESE	37.1	26.7	179	0.7										
3 / 34	Today	57	19	75	2.3	SSE	34.1	26.2	163	2.8	Yesterday	76	44	66	2.5	ENE	37.1	28.7	173	1.6
	Yesterday	59	21	79	0.9	ESE	37.1	26.7	179	0.7										
Science Faculty	Today	55	15	75	2.3	SSE	34.1	26.2	163	2.8	Yesterday	76	44	66	2.5	ENE	37.1	28.7	173	1.6
	Yesterday	53	18	79	0.9	ESE	37.1	26.7	179	0.7										

Good  
0 - 50

Moderate  
51 - 100

Unhealthy for Sensitive Groups  
101 - 150

Unhealthy for All  
151 - 200

Very Unhealthy for All  
201 - 300

Hazardous for All  
301 - 400

Hazardous for All  
401 - 500

**Views of AQI Research Group:** In comparison to yesterday, concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have marginally decreased at all locations of Dayalbagh. The Air Quality Index w.r.t. PM<sub>2.5</sub> remains in the *Moderate* category at Vidyut Nagar and in the *Moderate* category at Prem Nagar and Science Faculty, while w.r.t. PM<sub>10</sub>, it remains in the *Good* category at all three locations of Dayalbagh.

At Sanjay Place, the concentrations of PM<sub>2.5</sub> have remained constant while PM<sub>10</sub> have decreased. The Air Quality Index w.r.t. PM<sub>2.5</sub> remains in the *Moderate* category, while w.r.t. PM<sub>10</sub> it remains in the *Good* category.

NOTE: 1 A continuing 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>; \*Multiplication Sign