

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 3.8.2022 (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 3 – 2										Today									
	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	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 2 – 1						Max	Min			August 2 – 1						Max	Min			
4 / 97	Today	29	16	68	1.9	NNE	39.2	28.3	198	0	Today	66	36	66	2.2	SE	37.9	29.6	215	0
	Yesterday	13	10	68	1.4	N	37.8	27.3	216	0										
3 / 34	Today	50	18	68	1.9	NNE	39.1	28.1	198	0	Yesterday	38	26	68	2.9	SSW	36.6	28.5	233	0
	Yesterday	33	11	68	1.4	N	37.8	27.3	216	0										
Science Faculty	Today	50	16	68	1.9	NNE	39.3	28.5	198	0	Yesterday	38	26	68	2.9	SSW	36.6	28.5	233	0
	Yesterday	25	08	68	1.4	N	37.8	27.3	216	0										

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
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**Views of AQI Research Group:** In comparison to yesterday, concentrations of PM<sub>2.5</sub> and PM<sub>10</sub> have marginally increased. This increase might have resulted due to change in wind direction from N to NNE. However, the Air Quality Index w.r.t. both PM<sub>2.5</sub> and PM<sub>10</sub> remains in the *Good* category at all the three locations of Dayalbagh.

At Sanjay Place also, the concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have increased. The Air Quality Index has changed from *Good* to *Moderate* category w.r.t PM<sub>2.5</sub> but remains in the *Good* category w.r.t. PM<sub>10</sub>.

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