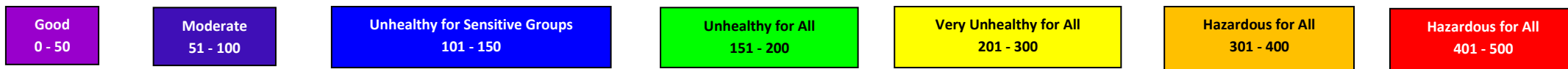


# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 1.9.2022 (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:  September 1 – August Yesterday  August 31 – 30	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								Date  Today:  September 1 – August Yesterday  August 31 – 30	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	46	35	66	0.7	NNE	41.7	29.1	191	00	Today	97	69	64	1.2	E	39	30.7	204	00
	Yesterday	46	33	71	0.7	NE	37.9	26.9	174	3.0		Yesterday	95	62	70	1.0	ESE	36.3	28.3	176
3 / 34	Today	66	30	66	0.7	NNE	41.7	29.1	191	00	Yesterday		95	62	70	1.0	ESE	36.3	28.3	176
	Yesterday	68	30	71	0.7	NE	37.9	26.9	174	3.0		Yesterday	95	62	70	1.0	ESE	36.3	28.3	176
Science Faculty	Today	63	30	66	0.7	NNE	41.7	29.1	191	00	Yesterday		95	62	70	1.0	ESE	36.3	28.3	176
	Yesterday	63	29	71	0.7	NE	37.9	26.9	174	3.0		Yesterday	95	62	70	1.0	ESE	36.3	28.3	176



**Views of AQI Research Group:** At Dayalbagh sites, concentrations of PM<sub>2.5</sub> and PM<sub>10</sub> are more or less similar to yesterday despite marginal changes in meteorological parameters. The Air Quality Index w.r.t. PM<sub>2.5</sub> remains in the *Good* category at Vidyt Nagar and in the *Moderate* category at Science Faculty and Prem Nagar, while w.r.t to PM<sub>10</sub> it remains in the *Good* category at all three locations of Dayalbagh.

At Sanjay Place concentrations of PM<sub>10</sub> have appreciably increased. The Air Quality Index w.r.t. both PM<sub>2.5</sub> and PM<sub>10</sub> remains in the *Moderate* category.

Better AQI at Dayalbagh relative to Sanjay Place may be attributed to the control measures (misting, spraying and restricted vehicular movement) being adopted at Dayalbagh.

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 –

$$I = \frac{I_{high} - I_{low}}{C_{high} - C_{low}} * (C - C_{low}) + I_{low}$$

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>; \*Multiplication Sign