

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.8.2022 (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 27 – 26  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 27 – 26  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	30	71	1.4	S	37.2	27.3	185	00	Today	80	59	68	2.9	SSE	36.4	29.2	204	00
	Yesterday	38	24	70	0.9	NNE	38.0	26.3	179	0.5										
3 / 34	Today	61	26	71	1.4	S	37.2	27.3	185	00	Yesterday	66	54	69	1.7	S	35.2	27.5	193	04
	Yesterday	50	22	70	0.9	NNE	38.0	26.3	179	0.5										
Science Faculty	Today	59	24	71	1.4	S	37.2	27.3	185	00	Yesterday	66	54	69	1.7	S	35.2	27.5	193	04
	Yesterday	42	19	70	0.9	NNE	38.0	26.3	179	0.5										

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 increased at all locations of Dayalbagh. The Air Quality Index w.r.t. PM<sub>2.5</sub> remains in the *Good* category at Vidyut Nagar and has changed to 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 also, the concentrations of PM<sub>2.5</sub> and PM<sub>10</sub> have increased. The Air Quality Index w.r.t. both PM<sub>2.5</sub> and PM<sub>10</sub> remains in the *Moderate* category.

We may emphasize Precision-Farming as already integrated with Agroecology at Dayalbagh Hqs. of Radhasoami Faith as Religious & Charitable Society, in response to National & International Policy- Guidelines for meeting the daunting- challenges looming large on the horizon for the present and the future welfare of the Mankind for not only the target year 2100, but even beyond through ever continuing selfless service to living-beings, for inevitable merger of Milkyway Galaxy under "Sun" with its nearest orbiting Galaxy Andromeda under "Mars" (of course including Planet Earth's own Satellite, referred to popularly as "Moon").

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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

Saturday, 27-08-2022, 06:14 PM  
Received, Saturday, 27-08-2022, 12:24 PM