

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 18.5.2022 (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 QualityIndex			Meteorological Parameters						Today:	AQI			Meteorological Parameters					
	May 18 – 17										May 18 – 17									
	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
May 17 – 16						Max	Min			May 17 – 16						Max	Min			
4 / 97	Today	72	82	40	3.0	NE	43.9	31.0	167	0	Today	161	188	38	3.0	NE	45.8	33.2	188	0
	Yesterday	61	88	32	3.9	N	46.3	28.2	156	0										
3 / 34	Today	84	57	41	3.0	NE	43.1	30.8	174	0	Yesterday	155	263	33	3.1	SE	47.3	30.2	186	0
	Yesterday	70	58	32	3.9	N	45.5	28.4	163	0										
Science Faculty	Today	80	56	42	3.0	NE	43.0	30.6	167	0	Yesterday	155	263	33	3.1	SE	47.3	30.2	186	0
	Yesterday	63	57	32	3.9	N	45.2	27.4	153	0										

**Views of AQI Research Group:** PM<sub>2.5</sub> levels have increased in comparison to yesterday at all the sites. The Wind Direction at Dayalbagh sites has changed from N to NE, Wind Speed has decreased and Relative Humidity has increased. Air Quality at all the Dayalbagh sites w.r.t to PM<sub>2.5</sub> and PM<sub>10</sub> is in the *Moderate* category. At Sanjay Place, there is marginal decrease in Wind Speed, Wind Direction has changed from SE to NE and Relative Humidity has increased. AQI at Sanjay Place w.r.t both PM<sub>2.5</sub> and PM<sub>10</sub> is in the *Unhealthy for All* category. Air Quality at Dayalbagh is better than Sanjay Place.

Remarks of Revered Chairman-ACE:

Received: Wednesday, 18-05-2022, 12:31 PM  
Perused: Subject to Legalese / Legalise / "Laws of the Land"

Wednesday, 18-05-2022, 03:24 PM

Good -G

Moderate- M

Unhealthy for Sensitive Groups- UHS

Unhealthy for All- UHA

Very Unhealthy for All-VUHA

Hazardous for All- HZA

Hazardous for All-HZA

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>

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