

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 28.12.2021 (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 to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								Date	SANJAY PLACE (ARITHMETIC MEAN DATA)							
	Today:	AQI		Meteorological Parameters						Today:	AQI		Meteorological Parameters					
	Dec 27-28	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Dec 27-28	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
	Yesterday:									Dec 26-27								
	Dec 26-27																	
4 / 97	Today	169	134	75	2.1	ENE	17	37	0	Today	162	95	67	0.8	SE	14	74	0
	Yesterday	192	120	77	2.5	ENE	17	38	0									
3 / 34	Today	164	125	77	2.1	ENE	17	45	0	Yesterday	192	148	70	1.4	SSW	15	70	0
	Yesterday	184	107	77	2.5	ENE	17	43	0									
Science Faculty	Today	163	130	80	2.2	ESE	17	41	0	Yesterday								
	Yesterday	277	110	80	1.9	SW	17	39	0									

Views of AQI Research Group: At Dayalbagh, PM<sub>2.5</sub> AQI improved whereas PM<sub>10.0</sub> AQI mildly deteriorated.

Remarks of Revered Chairman-ACE: Further research at multiple levels and representations may be done for PM<sub>10.0</sub>. Factors likely responsible may be identified.

Received : Tuesday, 28 December 2021, 12:44 PM

Tuesday, 28 December 2021, 4:10 PM

Good - G

Moderate - M

Unhealthy for Sensitive Groups - US

Unhealthy for All - UH

Very Unhealthy for All - VUH

Hazardous for All - HZ

Hazardous for All - HZ

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>