

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.1.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean) : PM₁₀ = 150; PM_{2.5} = 35, all units are in µg/m³ | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								Date	SANJAY PLACE (ARITHMETIC MEAN DATA)							
	Today:	AQI		Meteorological Parameters						Today:	AQI		Meteorological Parameters					
	Jan 16 -15	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm	Jan 16 -15	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	Yesterday: Jan 15 - 14									Yesterday: Jan 15 - 14								
3 / 34	Today	164	149	82	1.6	SSW	10	24	0	Today	157	119	76	1.1	WSW	9.5	45	0
	Yesterday	163	111	88	1.4	SSW	11	46	0	Yesterday	166	139	83	1.2	ESE	10.8	80	0
Science Faculty	Today	157	150	85	1.7	SSW	10	27	0	Today	157	119	76	1.1	WSW	9.5	45	0
	Yesterday	167	116	91	1.4	SSW	11	56	0	Yesterday	166	139	83	1.2	ESE	10.8	80	0
Science Faculty	Today	168	127	86	3.3	NE	10	26	0	Today	157	119	76	1.1	WSW	9.5	45	0
	Yesterday	184	117	93	3.1	NNE	11	48	0	Yesterday	166	139	83	1.2	ESE	10.8	80	0

Views of AQI Research Group: Drop in Relative Humidity (RH) may have caused reduction in PM_{2.5} AQI at Dayalbagh and Sanjay Place. At Sanjay Place, change in Wind Direction seems to be the cause of reduction in PM_{10.0} and may be PM_{2.5} readings. Higher RH at Dayalbagh explains mildly higher readings vis-à-vis Sanjay Place.

Remarks of Revered Chairman-ACE:

Received: Sunday, 16 January 2022, 12:24 PM

As Discussed

Sunday, 16 January 2022, 04:04 PM

Good - G

Moderate- M

Unhealthy for Sensitive Groups- US

Unhealthy for All-

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_{2.5} 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_{2.5}), C_{low}=Concentration Breakpoint ≤C, C_{high}=Concentration Breakpoint ≥C, I_{low}=Index Break point corresponding to C_{low}, I_{high}=Index Breakpoint corresponding to C_{high}