

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 11.1.2022 (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 11 -10 Yesterday: Jan 10 - 9	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm	Jan 11 -10 Yesterday: Jan 10 - 9	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	Today	162	111	84	2.5	WNW	13	38	0	Today	157	96	79	1.9	WNW	9.5	65	0
	Yesterday	149	97	91	2.5	W	15	18	0									
3 / 34	Today	163	110	87	2.6	WNW	13	47	0	Yesterday	115	84	84	2.2	S	12	28	0
	Yesterday	154	92	89	2.5	W	14	18	0									
Science Faculty	Today	176	104	89	3.0	NE	13	43	0	Yesterday								
	Yesterday	161	95	94	2.5	S	15	18	0									

Views of AQI Research Group: Reducing effect of rainfall 48 hours ago is visible. Across locations, AQI of both pollutants has increased. Minor difference in Dayalbagh and Sanjay Place readings can be attributed to higher Relative Humidity at Dayalbagh vis-à-vis Sanjay Place.

Remarks of Revered Chairman-ACE: Apparently, primarily due to cooling down of temperature and lower wind speed which have counter balancing nature.

Received: Tuesday, 11 January 2022, 11:54 AM



Tuesday, 11 January 2022, 4:17 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_{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}