

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 10.1.2022 (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 10 -9									Jan 10 -9								
	Yesterday:	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm	Yesterday:	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
	Jan 9 - 8									Jan 9 - 8								
4 / 97	Today	149	97	91	2.5	W	15	18	0	Today	115	84	84	2.2	S	12	28	0
	Yesterday	129	70	92	3.5	ESE	16	18	10									
3 / 34	Today	154	92	89	2.5	W	14	18	0	Yesterday	99	63	86	2.8	SE	13.5	33	7.2
	Yesterday	147	71	94	3.6	ESE	16	19	10									
Science Faculty	Today	161	95	94	2.5	S	15	18	0	Yesterday								
	Yesterday	155	65	95	2.5	SSW	16	18	10									

Views of AQI Research Group: The positive effect of rainfall seems to have reduced over the last 24 hours and caused mild increase in AQI at Dayalbagh and Sanjay Place. Higher Relative Humidity at Dayalbagh vis-à-vis Sanjay Place may explain the difference in readings at the two locations.

Remarks of Revered Chairman-ACE:

Received: Monday, 10 January 2022, 12:30 PM

Monday, 10 January 2022, 4:00 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}