

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 1.1.2022 (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)							
		AQI		Meteorological Parameters							AQI		Meteorological Parameters					
		PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm		PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
	Today: Jan 1- Dec 31									Today: Jan 1- Dec 31								
	Yesterday: Dec 31-30									Yesterday: Dec 31-30								
4 / 97	Today	158	118	70	1.9	WNW	14	51	0	Today	172	114	61	1.3	ESE	11	81	0
	Yesterday	170	115	69	2.1	SW	13	51	0									
3 / 34	Today	169	111	71	1.9	WNW	13	56	0									
	Yesterday	157	123	72	2.1	SW	11	51	0	Yesterday	166	108	61	1.2	SE	10	88	0
Science Faculty	Today	211	151	75	3.0	NE	13	45	0									
	Yesterday	158	112	74	4.1	NE	12	50	0									

Views of AQI Research Group: Prem Nagar and Vidyut Nagar AQI were better than Sanjay Place. Vidyut Nagar recorded the lowest PM_{2.5} AQI and Prem Nagar clocked the lowest PM_{10.0} AQI. North-Eastern winds and lower Solar Radiation may have caused deterioration in the AQI at Science Faculty.

Remarks of Revered Chairman-ACE:

Received: Saturday, 1 January 2022, 1:57 PM



Saturday, 1 January 2022, 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}