

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 11.2.2022 (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						
	Feb 11 – 10	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	Feb 11 – 10	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
	Yesterday Feb 10 - 9						Max	Min			Feb 10 - 9						Max	Min		
4 / 97	Today	119	68	71	2.8	WNW	25.2	11.1	54	0	Today	105	95	64	1.9	SW	21.9	10.8	109	0
	Yesterday	147	85	91	3.1	E	17.8	9.8	29	3.0										
3 / 34	Today	151	85	73	2.8	WNW	22.3	9.6	83	0	Yesterday	87	64	86	1.5	ENE	17.7	13.3	43	4.7
	Yesterday	124	66	93	3.1	E	17.7	9.3	32	3.0										
Science Faculty	Today	152	68	76	2.8	WNW	21.7	9.1	64	0	Yesterday	87	64	86	1.5	ENE	17.7	13.3	43	4.7
	Yesterday	147	68	95	3.1	E	17.9	8.9	29	3.0										

Views of AQI Research Group: Vidyut Nagar had the lowest AQI at Dayalbagh perhaps because of comparatively highest Temperature and lowest Relative Humidity. Diminishing effect of rainfall seems to have caused the increase in AQI for both PM_{2.5} and PM_{10.0} at Sanjay Place and Prem Nagar. Science Faculty saw no or little change in AQI.

Remarks of Revered Chairman-ACE: With reference to Prem Nagar location it is deeply regretted that in spite of the present lessee testing positive to COVID 19 pandemic, the construction activity in that location continues unabated. This requires immediate action and if necessary full-fledged inquiry should be set up against the perpetrators in the Construction Department.

Received: Friday, 11 February 2022, 1:14 PM



Friday, 11 February 2022,

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}