

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 14.2.2022 (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)										
		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		
Max	Min						Max	Min														
	Today: Feb 14 – 13											Today: Feb 14 – 13										
	Yesterday Feb 13 - 12											Yesterday Feb 13 - 12										
4 / 97	Today	156	92	59	1.6	SSE	28.8	13.3	86	0	Today	149	119	54	0.8	SE	26	12.4	133	0		
	Yesterday	153	84	61	1.7	S	28.0	10.8	82	0												
3 / 34	Today	149	89	62	1.6	SSE	26.8	12.6	99	0												
	Yesterday	157	86	68	1.7	S	24.6	10.3	102	0												
Science Faculty	Today	164	85	63	1.7	SSE	26.7	12.2	75	0	Yesterday	153	142	57	1.5	E	24.6	11.5	135	0		
	Yesterday	154	74	70	1.7	S	24.2	10.0	74	0												

Views of AQI Research Group: Prem Nagar recorded the best AQI across the four locations. Overall, the AQI at Dayalbagh remained better than that at Sanjay Place. Change in Wind Direction at Dayalbagh and Sanjay Place seem to be the primary cause of change respectively.

Received: Monday, 14 February 2022, 12:23 PM

Monday, 14 February 2022,

Remarks of Revered Chairman-ACE:

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}