

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 17.2.2022 (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 17 – 16										Feb 17 – 16									
	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
Feb 16 - 15						Max	Min			Feb 16 - 15						Max	Min			
4 / 97	Today	122	69	62	1.6	ENE	30.7	13.3	97	0	Today	117	122	56	1.5	ENE	28	13.4	133	0
	Yesterday	159	93	61	1.6	S	28.1	12.7	91	0										
3 / 34	Today	154	70	65	1.6	ENE	27.7	13.1	101	0	Yesterday	149	123	53	0.9	ENE	27.5	14.4	126	0
	Yesterday	152	90	65	1.6	S	27.3	12.3	95	0										
Science Faculty	Today	153	66	68	1.6	ENE	27.1	12.4	77	0										
	Yesterday	168	85	67	1.6	S	27.0	12.1	73	0										

Views of AQI Research Group: The PM_{10.0} AQI at Dayalbagh was better than that at Sanjay Place and decreased over yesterday significantly. The PM_{2.5} AQI of Vidyut Nagar and Sanjay Place too saw significant improvement. Higher Solar Radiation and thus higher Temperature seem to have expanded the Atmospheric Boundary Layer (ABL) thus reducing the concentration levels. •

Remarks of Revered Chairman-ACE:

Received: Thursday, 17 February 2022, 11:08 AM

Thursday, 17 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}