

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.2.2022 (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									
Feb 19 – 18											Feb 19 – 18									
Today											Today									
Yesterday											Yesterday									
Feb 18 - 17											Feb 18 - 17									
4 / 97	Today	93	56	53	1.9	ENE	31.2	15.2	68	0	Today	80	87	47	1.5	ENE	29.4	15.9	131	0
	Yesterday	152	81	57	1.6	E	30.8	12.5	100	0										
3 / 34	Today	115	51	55	1.9	ENE	29.1	15.7	99	0	Yesterday	127	119	50	1.3	NNE	28.2	13.5	132	0
	Yesterday	158	73	60	1.6	E	28.2	12.7	100	0										
Science Faculty	Today	122	54	57	1.9	ENE	28.9	15.1	77	0										
	Yesterday	157	78	62	1.6	E	27.0	12.0	76	0										

Views of AQI Research Group: Third day in a row the PM10.0 AQI of Dayalbagh remained better than that at Sanjay Place. Across all locations the AQI of both Particulate Pollutants reduced significantly. Increased Temperature and reduced Relative Humidity coupled with changed Wind Direction seem to be the possible reasons for the improvement.

Received: Saturday, 19 February 2022, 10:53 AM



Saturday, 19 February 2022,

Remarks of Reversed 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}