

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 9.3.2022 (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								
March 9 - 8 Today	161	94	56	2.5	SE	33.3	18.3	90	0	March 9 - 8 Today	175	133	49	1.5	NNE	32.4	20.2	127	0
	152	85	60	1.7	NNE	31.9	16.0	89	0		March 8 - 7 Yesterday	165	115	51	1.1	ESE	32.3	17.7	143
March 8 - 7 Yesterday	167	82	60	2.5	SE	31.6	18.4	88	0	March 8 - 7 Yesterday		153	68	63	1.7	NNE	31.9	15.9	102
	154	70	64	1.7	NNE	31.6	15.4	102	0		169	86	62	2.5	SE	30.7	18.3	90	0
Science Faculty	154	70	64	1.7	NNE	31.6	15.4	102	0	169	86	62	2.5	SE	30.7	18.3	90	0	

Views of AQI Research Group: The AQI at Dayalbagh is better than that at Sanjay Place for both Particulate Pollutants. However, AQI at all locations deteriorated marginally. Pollutant concentrations have increased at all sites probably on account of changed Wind Direction. Reduced Relative Humidity and increased Wind Speed must have helped counter a sharper deterioration across all locations.

Received: Wednesday, 9 March 2022, 11:30 AM

Remarks of Reversed Chairman-ACE:

Wednesday, 9 March 2022, 4:00 PM

Good -G

Moderate- M

Unhealthy for Sensitive Groups- UHS

Unhealthy for All- UHA

Very Unhealthy for All-VUHA

Hazardous for All- HZA

Hazardous for All-HZA

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}