

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.2.2022 (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 20 – 19	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T		SR W/m ²	RF mm	Feb 20 – 19	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T		SR W/m ²	RF mm
	Yesterday						°C	°C												
Feb 19 - 18	Max						Min	Max			Min									
4 / 97	Today	129	66	59	3.0	SE	30.1	14.3	94	0	Today	93	89	51	3.0	NNE	27.7	13.7	133	0
	Yesterday	93	56	53	1.9	ENE	31.2	15.2	68	0										
3 / 34	Today	152	62	61	2.9	SE	27.6	14.6	102	0	Yesterday	80	87	47	1.5	ENE	29.4	15.9	131	0
	Yesterday	115	51	55	1.9	ENE	29.1	15.7	99	0										
Science Faculty	Today	156	68	63	3.0	SE	26.8	14.2	78	0	Yesterday	80	87	47	1.5	ENE	29.4	15.9	131	0
	Yesterday	122	54	57	1.9	ENE	28.9	15.1	77	0										

Views of AQI Research Group: It is observed that Solar Radiation increased but the Temperature decreased. This phenomenon can most likely be caused due to the change in Wind Direction. The changed Wind Direction probably brought in air with higher Relative Humidity and cooled the local ambient Temperature mildly. Increased Relative Humidity seems to have increased the AQI of both Particulate Pollutants across all four locations.

Remarks of Revered Chairman-ACE: High-end Research should continue as part of New and Renewable Project (also financed by the Current MNRE Grant).

Received: Sunday, 20 February 2022, 11:32 AM

Sunday, 20 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}