

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 31.12.2021 (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			
	Dec 31-30									Dec 31-30								
	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
	Dec 30-29									Dec 30-29								
4 / 97	Today	170	115	69	2.1	SW	13	51	0	Today	166	108	61	1.2	SE	10	88	0
	Yesterday	165	145	78	1.4	S	15	48	0									
3 / 34	Today	157	123	72	2.1	SW	11	51	0	Yesterday	172	113	68	1.5	E	11	79	0
	Yesterday	164	109	79	1.4	S	14	53	0									
Science Faculty	Today	158	112	74	4.1	NE	12	50	0	Yesterday								
	Yesterday	193	131	84	3.3	NE	14	41	0									

Views of AQI Research Group: Despite higher Relative Humidity (RH) compared to Sanjay Place, the PM_{2.5} AQI at Dayalbagh is better than that at Sanjay Place. PM_{10.0} AQI of Dayalbagh and Sanjay Place are comparable. High wind speed at Science Faculty, DEI may have helped in dispersal of both pollutant-sizes causing substantial improvement w.r.t. yesterday.

Remarks of Revered Chairman-ACE:

Received : Friday, 31 December 2021, 12:01 PM

Friday, 31 December 2021, 5:01 PM

Good - G

Moderate- M

Unhealthy for Sensitive Groups- US

Unhealthy for All-UH

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}