

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 7.1.2022 (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			
	Jan 7 - 6									Jan 7 - 6								
	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
	Jan 6 - 5									Jan 6 - 5								
4 / 97	Today	166	113	89	3.5	SE	15	28	0.5	Today	153	73	84	2.2	SE	11.6	44	1.0
	Yesterday	233	173	82	2.7	ENE	15	18	5.5									
3 / 34	Today	169	106	91	3.5	SE	15	30	0.5	Yesterday	188	150	77	2.2	SSW	12	31	6
	Yesterday	223	145	84	2.6	ENE	15	21	5.5									
Science Faculty	Today	160	121	92	1.9	SSE	15	28	0.5	Yesterday								
	Yesterday	235	143	86	2.5	WNW	15	20	5.5									

Views of AQI Research Group: SE/SSE winds and increased Solar radiation, seem to have helped reduce the pollution at Dayalbagh and Sanjay Place. Locations having higher wind speeds seems to be having higher improvement in AQI. Higher Relative Humidity (RH) at Dayalbagh seems to be the reason for higher readings vis-à-vis Sanjay Place.

Remarks of Revered Chairman-ACE:

Received: Friday, 07 January 2022, 12:21 PM



Friday, 07 January 2022,

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}