

Radhasoami Dayal Ki Daya Radhasoami Sahai


AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 4.3.2022 (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									
Today: March 4 - 3 Yesterday											Today: March 4 - 3 Yesterday									
	March 3 - 2																			
4 / 97	Today	157	87	59	1.8	ESE	30.1	16.5	99	0	Today	166	110	53	2.0	S	30.8	17.1	134	0
	Yesterday	160	96	59	2.1	NE	31.7	15.7	106	0										
3 / 34	Today	158	74	62	1.8	ESE	29.9	16.3	98	0	Yesterday	171	118	53	1.4	N	30.0	16.6	146	0
	Yesterday	164	82	62	2.1	NE	29.4	15.8	107	0										
Science Faculty	Today	156	74	63	1.8	ESE	31.0	15.7	90	0	Yesterday	171	118	53	1.4	N	30.0	16.6	146	0
	Yesterday	162	82	65	2.1	NE	29.7	15.5	102	0										

Views of AQI Research Group: The AQI at Dayalbagh remained better than that at Sanjay Place. Across the four locations, the pollution levels reduced marginally compared to yesterday, perhaps due to the change in Wind Direction and increased Temperature (causing expansion of the Atmospheric Boundary Layer {ABL} causing reduction in concentration of Pollutants).

Received: Friday, 4 March 2022, 12:03 PM



Friday, 4 March 2022, 4:10 PM

Good -G Moderate- M Unhealthy for Sensitive Groups- US

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}