

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 3.10.2022

(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)

Today: 2-10-2022 to 3-10-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 1-10-2022 to 2-10-2022 from 9:00 a.m. to 9:00 a.m.

L O C A T I O N	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)											SANJAY PLACE (ARITHMETIC MEAN DATA)										
	AQI				Meteorological Parameters							AQI				Meteorological Parameters						
	PM _{2.5}		PM ₁₀		RH %	WS m/s	W D	T °C		SR W/m ²	RF mm	PM _{2.5}		PM ₁₀		RH %	WS m/s	W D	T °C		SR W/m ²	RF mm
	Today	Yesterday	Today	Yesterday				Max	Min			Today	Yesterday	Today	Yesterday				Max	Min		
	4 / 97	70	144	45	69	59	2.5	S	37.5	24.5	183	0										
3 / 34	95	155	40	71	59	2.5	S	37.5	24.5	183	0	124	161	84	107	54	2.3	NNE	38.2	27.4	205	0
Science Faculty	97	158	44	72	59	2.5	S	37.5	24.5	183	0											

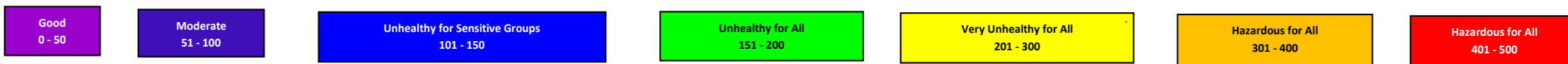
Views of AQI Research Group: A marked reduction in Particulate matter concentrations have occurred improving the Air Quality Index values to the *Moderate* category w.r.t. PM_{2.5} and *Good* category w.r.t. PM₁₀ at Dayalbagh. This might be due to decrease in Relative Humidity, increase in Wind Speed and Change in Wind Direction.

At Sanjay Place also, the Air quality Index has improved to *Unhealthy for Sensitive Groups* w.r.t. PM_{2.5} from the *Unhealthy for All* category while, w.r.t. PM₁₀ it has improved to the *Moderate* category from the *Unhealthy for Sensitive Groups* category.

Perused By Way of Information Only,
Subject To Legalise/Legalese/"Laws of the Land".



Monday, 03-10-2022, 04:34 PM
Received, Tuesday, 03-10-2022, 12:36 PM



NOTE: 1 A continuing 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}; *Multiplication Sign