

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 1.10.2022

(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: 30-09-2022 to 1-10-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 29-09-2022 to 30-09-2022 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 m m
	Today	Yesterday	Today	Yesterday				Max	Min			Today	Yesterday	Today	Yesterday				Max	Min		
4 / 97	149	110	69	62	70	0.5	NE	36.9	25.4	177	0	160	156	98	99	63	1.0	ESE	36.1	28.1	197	0
3 / 34	156	142	70	60	70	0.5	NE	36.9	25.4	177	0	160	156	98	99	63	1.0	ESE	36.1	28.1	197	0
Science Faculty	160	149	74	58	70	0.5	NE	36.9	25.4	177	0	160	156	98	99	63	1.0	ESE	36.1	28.1	197	0

Views of AQI Research Group: Air Quality Index values have increased due to stagnant and calm weather conditions (moderate Relative Humidity, low Wind Speed) and a change in Wind Direction.



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

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