

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 29.10.2022

(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: 28 -10-2022 to 29 -10-2022 from 9:00 a.m. to 9:00 a.m. Yesterday: 27 -10-2022 to 28 -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	WD	T °C		SR W/m ²	RF mm	PM _{2.5}		PM ₁₀		R H %	WS m/s	W D	T °C		SR W/m ²	R F m m
	Today	Yesterday	Today	Yesterday				Max	Min			Today	Yesterday	Today	Yesterday				Max	Min		
4 / 97	150	151	111	108	58	0.3	SSE	38.5	18.7	139	0											
3 / 34	155	158	113	105	58	0.3	SSE	38.5	18.7	139	0	181	180	124	120	68	0.2	NN W	35.9	21.3	6.7* (103)	0
Science* Faculty	173	168	124	121	58	0.3	SSE	38.5	18.7	139	0											

Views of AQI Research Group: Particulate concentrations have marginally changed at all Dayalbagh sites probably due to change in Wind Direction and stagnant meteorological conditions. The Air Quality Index w.r.t. PM_{2.5} remains in the *Unhealthy for All* category while, w.r.t. PM₁₀ it remains in the *Unhealthy for Sensitive Groups* category at all sites of Dayalbagh.

PM_{2.5} and PM₁₀ values for Sanjay Place are available intermittently. The Air Quality Index values have been computed from available data. *SR value recorded at Sanjay Place appears to be erroneous. Value in parentheses is the SR value of Avas Vikas, Bodla, Agra.

*Registrar DEI has been briefed in the matter, as suggested by Prof. Satya Prakash.
Perused By Way of Information Only.
Subject To Legalise/Legalese/"Laws of the Land".

Saturday, 29-10-2022, 04:40 PM
 Received, Saturday, 29-10-2022, 02:11 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