

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 23.9.2022

(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: 22-09-2022 to 23-09-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 21-09-2022 to 22-09-2022 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/ m²	RF mm	PM _{2.5}		PM ₁₀		RH %	WS m/s	W D	T °C		SR W/ m²	RF m m
								Max	Min										Max	Min		
	Today	Yesterday	Today	Yesterday				Max	Min			Max	Min									
4 / 97	97	42	49	17	93	3.1	NNE	27.4	25.1	41	10	76	50	31	20	87	1.3	N	28.4	26.7	42	09
3 / 34	76	46	31	17	93	3.1	NNE	27.4	25.1	41	10											
Science Faculty	99	50	37	17	93	3.1	NNE	27.4	25.1	41	10											

Views of AQI Research Group: Despite rainfall, the values of particulate matter have surged due to greater humidity promoting agglomeration and coagulation of sub-micron particles. Heavy vehicular traffic and kiosks on the Dayalbagh Road and 100 Feet Road (Dayalbagh) due to “Ram Baraat” event might have additionally contributed to the enhancement in particulate matter concentrations.

This is a stiff Warning Bell, conveying utterly disparaging performance, which should be remedied with immediate cost-effective & cost-efficient measures, otherwise strict penalty shall be levied for lame-excuses as identified by Competent Committee/Board set-up for the purpose.

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

Friday, 23-09-2022, 05:24 PM
Received, Friday, 23-09-2022, 01:50 PM

Good 0 - 50	Moderate 51 - 100	Unhealthy for Sensitive Groups 101 - 150	Unhealthy for All 151 - 200	Very Unhealthy for All 201 - 300	Hazardous for All 301 - 400	Hazardous for All 401 - 500
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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