AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 15.9.2022
(BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean): PM$_{10}$ = 150; PM$_{2.5}$ = 35, all units are in µg/m^3 Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

Today: 14-09-2022 to 15-09-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 13-09-2022 to 14-09-2022 from 9:00 a.m. to 9:00 a.m.

LOCATION	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$_{10}$		RH %	WS m/s	WD	T °C		SR W/ m^2	RF mm
	Today	Yesterday	Today	Yesterday				Max	Min			Today	Yesterday	Today	Yesterday				Max	Min		
4 / 97	55	29	16	12	87	1.6	SE	27.8	25.7	47	18.3											
3 / 34	59	46	23	14	87	1.6	SE	27.8	25.7	47	18.3	68	55	27	36	85	3.6	S	29	27	54	23.75
Science Faculty	57	25	25	17	87	1.6	SE	27.8	25.7	47	18.3											

Views of AQI Research Group: Marginal increase in PM$_{2.5}$ concentrations (recorded from 11:00 am - 9:00 pm) relative to yesterday appears to have resulted due to suspension of fine water droplets in the atmosphere on account of rain showers, causing an enhancement in the Air Quality Index values.

The new incumbents may try & improve the ratings as early as feasible.
Perused By Way of Information Only,
Subject To Legalise/Legalese/"Laws of the Land".

Thursday, 15-09-2022, 05:31 PM
Received, Thursday, 15-09-2022, 01:11 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

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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