

# AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.9.2022

## (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

**Permissible Limits (24 Hour Mean):** PM<sub>10</sub> = 150; PM<sub>2.5</sub> = 35, all units are in µg/m<sup>3</sup> Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

**Today:** 15-09-2022 to 16-09-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 14-09-2022 to 15-09-2022 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 <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	WD	T °C		SR W/ m²	RF mm	PM <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	WD	T °C		SR W/ m²	RF mm
								Max	Min										Max	Min		
	Today	Yesterday	Today	Yesterday				Max	Min			Today	Yesterday	Today	Yesterday				Max	Min		
4 / 97	38	55	21	16	84	4.3	ENE	33.3	24.7	108	10.9	50	68	28	27	81	2.8	N	33.1	25.7	122	11.5
3 / 34	50	59	19	23	84	4.3	ENE	33.3	24.7	108	10.9											
Science Faculty	50	57	23	25	84	4.3	ENE	33.3	24.7	108	10.9											

**Sustained research & its practice should continue to be our TOP PRIORITY.**  
Perused By Way of Information Only.  
Subject To Legalise/Legalese/"Laws of the Land".



Friday, 16-09-2022, 04:52 PM  
 Received, Friday, 16-09-2022, 12:48 PM

**Views of AQI Research Group:** Improvement in the Air quality Index values may be due to rain showers and increase in Wind Speed.

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<sub>2.5</sub> 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<sub>2.5</sub>); C<sub>low</sub> = Concentration Breakpoint ≤C; C<sub>high</sub> = Concentration Breakpoint ≥C;  
 I<sub>low</sub> = Index Break point corresponding to C<sub>low</sub>; I<sub>high</sub> = Index Breakpoint corresponding to C<sub>high</sub>; \*Multiplication Sign