

# AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 25.9.2022

## (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:** 24-09-2022 to 25-09-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 23-09-2022 to 24-09-2022 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	W D	T °C		SR W/m <sup>2</sup>	RF mm	PM <sub>2.5</sub>		PM <sub>10</sub>		RH %	WS m/s	W D	T °C		SR W/m <sup>2</sup>	RF m m
	Today	Yesterday	Today	Yesterday				Max	Min			Today	Yesterday	Today	Yesterday				Max	Min		
4 / 97	53	50	26	21	91	3.2	ESE	28.9	25.2	81	10											
3 / 34	61	57	24	22	91	3.2	ESE	28.9	25.2	81	10	59	66	28	30	85	1.6	SE	29	26.1	78	16
Science Faculty	59	57	21	22	91	3.2	ESE	28.9	25.2	81	10											

**Views of AQI Research Group:** At Dayalbagh sites, there is a minor increase in Air Quality Index values over yesterday because of decrease in wind speed and change in wind direction. Sanjay Place witnessed 60% more rain in comparison to Dayalbagh and no change in wind direction, this could be the reason for improvement in the Air Quality Index values of Sanjay Place. Yet AQI w.r.t. PM<sub>10</sub> is better at Dayalbagh than Sanjay Place.

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



Sunday, 25-09-2022, 03:52 PM  
Received, Sunday, 25-09-2022, 02:38 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<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