AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 4.10.2022

(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)

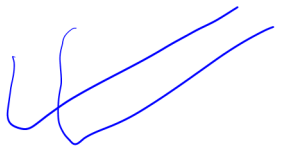
Today: 3-10-2022 to 4-10-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 2-10-2022 to 3-10-2022 from 9:00 a.m. to 9:00 a.m.

LOCATION	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)											SANJAY PLACE (ARITHMETIC MEAN DATA)										
	AQI				Meteorological Parameters							AQI				Meteorological Parameters						
	$PM_{2.5}$		PM_{10}					T °C				$PM_{2.5}$		PM_{10}					T °C			
	Today	Yesterday	Today	Yesterday	RH %	WS m/s	WD	Max	Min	SR W/m^2	RF mm	Today	Yesterday	Today	Yesterday	RH %	WS m/s	WD	Max	Min	SR W/m^2	RF mm
4 / 97	55	70	39	45	56	3.2	NW	36.6	26.0	176	0	93	124	83	84	53	3.8	N	37.9	27.8	201	0
3 / 34	72	95	31	40	56	3.2	NW	36.6	26.0	176	0											
Science Faculty	80	97	36	44	56	3.2	NW	36.6	26.0	176	0											

Views of AQI Research Group: Particulate matter concentrations have further decreased due to the dispersal of pollutants on account of the decrease in Relative Humidity, increase in Wind Speed and Change in Wind Direction. The Air Quality Index values remain in the *Moderate* category w.r.t. $PM_{2.5}$ and *Good* category w.r.t PM_{10} at Dayalbagh.

At Sanjay Place also, the Air Quality Index has improved to *Moderate* category from *Unhealthy for Sensitive Groups* w.r.t. $PM_{2.5}$ while, w.r.t. PM_{10} it remains in the *Moderate* category.

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



Tuesday, 04-10-2022, 04:59 PM
Received, Tuesday, 04-10-2022, 12:53 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

Communicated by Dr. Anita Lakhani, Professor, Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra.