AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.9.2022
(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: 18-09-2022 to 19-09-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 17-09-2022 to 18-09-2022 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 Max	T °C Min	SR W/m^2	RF mm	PM$_{2.5}$		PM$_{10}$		RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
	Today	Yesterday	Today	Yesterday								Today	Yesterday	Today	Yesterday							
4 / 97	59	50	25	24	73	0.5	SE	36.5	25.9	170	1.0											
3 / 34	76	68	33	27	73	0.5	SE	36.5	25.9	170	1.0	93	82	58	55	70	1.6	E	36.0	28.1	190	4.5
Science Faculty	78	72	34	27	73	0.5	SE	36.5	25.9	170	1.0											

Views of AQI Research Group: A marginal rise in particulate matter concentrations may probably be due to calm weather conditions (low wind speed and moderate relative humidity) which has probably constrained the dispersion of pollutants. In terms of PM$_{10}$, the Air Quality Index remains in the *Good* category while w.r.t. PM$_{2.5}$, it is in the *Moderate* category at all locations of Dayalbagh.

An increase in particulate levels has resulted in an increase in Air Quality Index values (*Moderate* category) at Sanjay Place also.

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

Monday, 19-09-2022, 04:59 PM
Received, Monday, 19-09-2022, 12:47 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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2 DEI ... ...tates Env... ...a Agency ...lculate A... ...3 Sanjay ... $_{2.5}$ conc... ...PA onli...
calcul...

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.