AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 14.9.2022 (BASED ON US-EPA AOI STANDARDS AND THE DAYALBAGH AOI COLOUR CODE)

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

Today: 13-09-2022 to 14-09-2022 from 9:00 a.m. to 9:00 a.m. Yesterday: 12-09-2022 to 13-09-2022 from 9:00 a.m. to 9:00 a.m.

	DAYALBAGH (TIME WEIGHTED AVED A CHED A TAX)												SANJAY PLACE (ARITHMETIC MEAN DATA)										
L O C A T I O N	AQI				TED AVERAGE DATA) Meteorological Parameters							AQI				Meteorological Parameters							
	PM _{2.5}		PM ₁₀					T °C				PM _{2.5}		PM ₁₀					T °C		SR W/ m²	RF mm	
																RH	WS	WD	 				
	Today	Yesterday	Today	Yesterday	RH %	WS m/s	WD	Max	Min	SR W/ m ²	RF mm	Today	Yesterday	Today	Yesterday	%	m/s		Max	Min			
4 / 97	29	21	12	11	72	5.4	SSE	32.9	26.9	109	0	55	53	36	44	68	4.3	ESE	34.1	28.3	114	0	
3 / 34	46	38	14	11	72	5.4	SSE	32.9	26.9	109	0												
Science Faculty	25	21	17	21	72	5.4	SSE	32.9	26.9	109	0												

Views of AQI Research Group: The Air Quality Index at all sites of Dayalbagh remains in the *Good* category w.r.t. both $PM_{2.5}$ and PM_{10} due to dispersal of pollutants resulting from favourable meteorological conditions.

At Sanjay Place, the Air Quality Index remains in the *Moderate* category w.r.t. $PM_{2.5}$ and *Good* category w.r.t. PM_{10} .

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 -

$$I = \frac{I_{\rm high} - I_{\rm low}}{C_{\rm high} - C_{\rm low}} * (C - C_{low}) + I_{low}$$

where: I = Air Quality Index; C = Pollutant Concentration (PM_{2.5}); C_{low} = Concentration Breakpoint $\leq C$; C_{high} = Concentration Breakpoint $\geq C$; C_{high} = Index Breakpoint corresponding to C_{low} ; C_{low} = Index Breakpoint corresponding to C_{high} ; *Multiplication Sign