AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 7.11.2022 (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 $\mu g/m^3$ Sampling Duration = 24 hrs (9:00 AM to 9:00 AM) Today: 6-11-2022 to 7-11-2022 from 9:00 a.m. to 9:00 a.m. Yesterday: 5-11-2022 to 6-11-2022 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						
	PM2.5		PM10					0	Г С			PM2.5		PM ₁₀					T °(
	Today	Yesterday	Today	Yesterday	RH %	WS m/s	WD	Max	Min	SR W/ m ²	RF mm	Today	Yesterday	Today	Yesterday	н	WS m/s	W D	Max	Min	SR W/ m ²	R F m	
4 / 97	163	170	87	98	69	0.5	S	35.9	20.2	112	0	152		95	105	61	0.2	SE	35	21.6	121	0	
3 / 34	166	171	88	99	69	0.5	S	35.9	20.2	112	0		154										
Science Faculty	181	189	93	106	69	0.5	S	35.9	20.2	112	0												
change in ' Dayalbagh, category at At Sanjay P	Wind Dire while w. Vidyut N lace conce	rch Group: Co ection. The A r.t. PM ₁₀ it ha agar and Prer entrations of <i>althy for All</i> ca	hir Quality as improven Nagar. particulat	v Index w.r.t. ed to the <i>Mo</i> e matter have	PM _{2.5} I <i>derate</i> e also m	remains categor narginall	in the <i>L</i> y at Scie	<i>Jnhealth</i> nce Facu ased, the	y for All o Ilty and is Air Quali	category s also in ty Index	the <i>Mod</i>	lue to tes of <i>lerate</i> PM _{2.5}	Intensify M intensive S Perused <u>By</u> Subject To I Monday, 07-	tubble E <u>Way of</u> Legalise	Burning) is Information /Legalese/"	sense Only	<mark>еd.</mark> С			ion (cau	ised by	/	

Good
0 - 50Moderate
51 - 100Unhealthy for Sensitive Groups
101 - 150Unhealthy for All
151 - 200Very Unhealthy for All
201 - 300Hazardous for All
301 - 400Hazardous 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 -

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

where: I = Air Quality Index; C = Pollutant Concentration (PM_{2.5}); C_{low} = Concentration Breakpoint \leq C; C_{high} = Concentration Breakpoint \geq 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.