AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.10.2022 (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 $\mu g/m^3$ Sampling Duration = 24 hrs (9:00 AM to 9:00 AM) Today: 18 -10-2022 to 19 -10-2022 from 9:00 a.m. to 9:00 a.m. Yesterday: 17 -10-2022 to 18 -10-2022 from 9:00 a.m. to 9:00 a.m.

L	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)													SANJAY PLACE (ARITHMETIC MEAN DATA)									
0	AQI				Meteorological Parameters							AQI					Meteorological Parameters						
C A T I O N	PM2.5		I	PM10					Г С			PM _{2.5}		PM10					T °C		-		
	Today	Yesterday	Today	Yesterday	RH %	WS m/s	WD	Max	Min	SR W/ m ²	RF mm	Today	Yesterday	Today	Yesterday	R H %	WS m/s	WD	Ma x	Min	SR W/ m ²	R F m	
4 / 97	144	147	77	72	66	0.5	w	35.2	19.1	171	0	165		127	122		0.2	w	34.6	22.7	6.2* (113)	0	
3 / 34	147	149	66	68	66	0.5	w	35.2	19.1	171	0		166			54							
Science Faculty	156	156	69	70	66	0.5	w	35.2	19.1	171	0												
The meteoro Sensitive Gro it remains in The pollutan All category	blogical par bups catego the <i>Moder</i> t concentr w.r.t. PM ₂ .	rch Group: The rameters have a ory at Vidyut Na rate category at ations have ma s _y and in the Ur in parentheses	also remain agar and Prit t all sites or arginally de anhealthy fo	ned nearly con rem Nagar and f Dayalbagh. creased at San r Sensitive Gro	stant. Th in the U jay Place ups cate	ne Air Qu Inhealthy e also. Th gory w.r.	ality Inde for All ca e Air Qua	ex w.r.t. Plategory at ality index	N _{2.5} remain Science Fa still remai	ns in the culty, wh ns in the	Unhealthy nile w.r.t. P Unhealthy	agh. y for YM ₁₀ y for ears	erused <u>By V</u> ubject To Le	egalise/L	egalese/"L		of the L	and".					
					(00) 200	a) / .g. a.							ednesday, 19 ceived, Weo			, 01:3	2 PM						
Good	Good Moderate 0 - 50 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			

3 Formula for AQI calculation for a Pollutant -

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

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.