## Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 2.5.2022 (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)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date		SANJAY PLACE (ARITHMETIC MEAN DATA)								
	Today:	Air Qua	lity Index	Meteorological Parameters							Today:	AQI		(	Meteorological Parameters						
	May 2– 1  Yesterday  May 1 –  April 30	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR	RF	May 2–1 Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH	ws	WD	T °C		SR	RF	
							Max	Min	W/m <sup>2</sup>	mm	May 1 – April 30			%	m/s		Max	Min	W/m <sup>2</sup> mm	mm	
4 / 97	Today	57	55	48	2.9	E	42.0	27.2	141	3	Today	155	125	43	3.4	N	44.7	28.1	188	1.25	
	Yesterday	57	54	28	3.3	NNE	46.8	29.7	157	0											
3 / 34	Today	68	32	49	3.0	E	41.4	27.2	143	3											
	Yesterday	70	35	28	3.3	NNE	46.1	29.4	164	0	0										
Science	Today	72	35	49	3.0	E	41.4	27.2	143	3 Yesterday	144	122	30	2.6	SSE	47.9	30.7	200	0		
Faculty	Yesterday	76	44	29	3.3	NNE	46.5	29.5	163	0	0			į		<u> </u>					

Views of AQI Research Group: At Dayalbagh, the AQI remained within US-EPA permissible limits despite a short-strong-storm (dust) with Wind Speeds crossing 8 m/s. The effect of the dust storm is not very visible in the readings because it partly got masked by the rain event following it. But for the rain, all Meteorological parameters were indicative of deterioration in AQI. The Air Quality at Sanjay Place has remained in the *Unhealthy for All and Unhealthy for Sensitive Groups* w.r.t PM<sub>2.5</sub> and PM<sub>10.0</sub> respectively.

Remarks of Revered Chairman-ACE:

Received: Monday, 2 May 2022, 11:56 AM
Perused: Subject to Legalese / Legalise / "Laws of the Land"

Monday, 2 May 2022, 3:35 PM

Good -G

Moderate- M

Unhealthy for Sensitive Groups- UHS

Unhealthy for All- UHA

Very Unhealthy for All-VUHA

**Hazardous for All- HZA** 

Hazardous for All-HZA

NOTE: 1 A continuous 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

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

where, I = Air Quality Index, C=Pollutant Concentration (PM2.5), Clow=Concentration Breakpoint ≤C, Chigh=Concentration Breakpoint ≥C, Ilow=Index Break point corresponding to Clow, Ihigh=Index Breakpoint corresponding to Chigh