Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 10.4.2022

(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)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: April 10 –9 Yesterday April 9 - 8	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: April 10 –9 Yesterday April 9 - 8	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	63	68	24	2.2	N	46.6	26.6	151	0	Today	153	138	26	1.9	NE	46.8	30.4	187	0
	Yesterday	82	81	25	2.0	N	45.3	25.5	151	0										
3 / 34	Today	80	51	26	2.2	N	45.3	26.6	141	0										
	Yesterday	97	59	27	2.0	N	43.5	26.0	142	0										
Science Faculty	Today	80	58	26	2.2	N	45.5	25.9	155	0	Yesterday	164	150	26	1.9	NE	46.0	**29**.1	192	0
	Yesterday	99	65	27	2.0	N	43.5	24.7	158	0										

Views of AQI Research Group: The Dayalbagh AQI levels have further decreased compared to yesterday and for both the micron Particulate Pollutants, the concentrations are within the USEPA permissible levels (24h mean) for all the three Dayalbagh sites, perhaps aided by increased Temperatures, higher Wind Speed, reduced Relative Humidity and several precautionary measures undertaken by Dayalbagh. The Dayalbagh colony remained in the MODERATE Category while Sanjay Place continued to be in the UNHEALTHY Category w.r.t both PM2.5 and PM10.0.

Remarks of Revered Chairman-ACE:

Received: Sunday, 10 April 2022, 11:16 AM

Perused: Subject to Legalese / Legalise / "Laws of the Land"

Sunday, 10 April 2022, 1:46 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.
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 (PM2.5), Clow=Concentration Breakpoint ≤C, Chigh=Concentration Breakpoint ≥C, Ilow=Index Break point corresponding to Clow, Ihigh=Index Breakpoint corresponding to Chigh