Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.4.2022

(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)

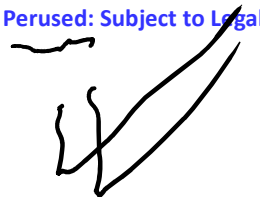
	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: April 19 – 18 Yesterday April 18 - 17	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: April 19 – 18 Yesterday April 18 - 17	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	66	70	29	2.9	NW	44.9	28.0	149	0	Today	159	151	29	2.1	SE	46.0	31.3	178	0
	Yesterday	68	71	26	2.5	SSW	45.0	29.4	151	0										
3 / 34	Today	84	52	31	3.0	NW	43.6	28.2	149	0										
	Yesterday	82	51	27	2.6	SSW	43.8	28.5	145	0										
Science Faculty	Today	82	54	31	2.9	NW	43.2	27.6	157	0	Yesterday	159	140	28	1.6	ESE	45.6	31	188	0
	Yesterday	84	55	28	2.7	SSW	44.5	27.9	155	0										

Views of AQI Research Group: The AQI at Dayalbagh remained in the MODERATE Category (within US-EPA permissible limits) and were in the UNHEALTHY FOR ALL Category at Sanjay Place, perhaps due to higher Wind Speed and changed Wind Direction.

Remarks of Revered Chairman-ACE:

Received: Tuesday, 19 April 2022, PM

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



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