Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 30.3.2022

(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/m³ | 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: March 30 – 29 / Yesterday: March 29 - 28	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm	Today: March 30 – 29 / Yesterday: March 29 - 28	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm
4 / 97	Today	93	88	30	2.4	S	42.9	23.8	143	0	Today	168	158	30	1.9	NNE	44.2	26.9	182	0
	Yesterday	107	90	29	2.1	S	42.0	22.9	147	0										
3 / 34	Today	110	63	33	2.4	S	41.9	23.8	132	0										
	Yesterday	122	65	33	2.1	S	41.0	23.4	127	0	Yesterday	166	156	29	2.2	NE	42.9	23.4	184	0
Science Faculty	Today	127	73	34	2.4	S	42.0	22.8	148	0										
	Yesterday	127	71	34	2.1	S	40.7	22.4	148	0										

Views of AQI Research Group: The AQI at Dayalbagh remained better than that at Sanjay Place. Vidyut Nagar had the lowest PM2.5 AQI and Prem Nagar recorded the lowest PM10.0 AQI. The reduction in AQI at Dayalbagh can be attributed to increased Wind Speed and higher Temperatures causing expansion of Atmospheric Boundary Layer (ABL) thus reducing pollutant concentration to some extent.

Remarks of Revered Chairman-ACE:

Received: Wednesday, 30 March 2022, 12:24 PM

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

Wednesday, 30 March 2022, 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