Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 22.3.2022

(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 to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	AVAS VIKAS (SIKANDRA) (ARITHMETIC MEAN DATA)								
	Today: March 22 – 21	AQI		Meteorological Parameters							Today: March 22 – 21	AQI		Meteorological Parameters						
	Yesterday March 21 - 20	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm	Yesterday March 21 - 20	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm
4 / 97	Today	153	100	46	2.7	NW	39.7	23.5	140	0	Today	154	99	42	0.7	ENE	40.4	21.8	162	0
	Yesterday	89	75	36	4.0	N	41.0	22.6	126	0										
3 / 34	Today	157	79	48	2.7	NW	38.6	23.5	117	0										
	Yesterday	102	57	38	4.0	N	40.4	22.9	116	0	Yesterday	124	88	29	0.5	S	42	23.4	163	0
Science Faculty	Today	158	83	50	2.7	NW	38.0	23.1	132	0										
	Yesterday	105	61	40	4.0	N	39.7	22.2	127	0										

Views of AQI Research Group: The UPPCB server systems at Sanjay Place were down after 7.00 pm yesterday and hence we are comparing the Dayalbagh data with UPPCB Avas Vikas (Sikandra). The PM10.0 AQI of Prem Nagar and the PM2.5 AQI of Vidyut Nagar were the least among all four locations. Increased Relative Humidity, reduced Wind Speed and changed Wind Direction may be the cause of increase in AQI values.

Remarks of Revered Chairman-ACE:

Received: Tuesday, 22 March 2022, PM

Tuesday, 22 March 2022, PM

Good -G | Moderate- M | Unhealthy for Sensitive Groups- US | Unhealthy for All-UH | Very Unhealthy for All-VUH | Hazardous for All- HZ | Hazardous for All-HZ

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