Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.3.2022

(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/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)								
		AQI		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: March 12 - 11 Yesterday March 11 - 10	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: March 12 - 11 Yesterday March 11 - 10	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	97	71	55	3.3	SE	33.7	17.5	117	0	Today	153	107	48	3.1	N	32.6	18.4	159	0
	Yesterday	112	74	53	2.6	SE	33.4	18.4	109	0										
3 / 34	Today	112	56	57	3.3	SE	33.6	18.0	115	0										
	Yesterday	124	58	55	2.6	SE	31.8	18.4	109	0	Yesterday	153	102	46	2.8	S	32.5	20.2	145	0
Science Faculty	Today	115	58	60	3.3	SE	30.8	17.5	117	0										
	Yesterday	124	60	58	2.6	SE	31.1	18.1	105	0										

Views of AQI Research Group: The AQI at Dayalbagh remained better than that at Sanjay Place for both the Particulate Pollutants. Vidyut Nagar has MODERATE AQI for PM2.5 and PM10.0. Even other locations in Dayalbagh saw reduction in pollution levels compared to yesterday while Sanjay Place saw a marginal rise. Increase in Solar Radiation and Wind Speed may be the reasons for improved air quality levels.

Remarks of Revered Chairman-ACE:

Received: Saturday, 12 March 2022, 11:47 AM

Saturday, 12 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