Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 10.3.2022

(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 10 - 9 Yesterday March 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: March 10 - 9 Yesterday March 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	102	74	49	2.1	SE	35.5	20.6	111	0	Today	155	106	42	2.8	N	34.4	21.8	147	0
	Yesterday	161	94	56	2.5	SE	33.3	18.3	90	0										
3 / 34	Today	115	58	50	2.1	SE	33.2	20.2	109	0										
	Yesterday	167	82	60	2.5	SE	31.6	18.4	88	0										
Science Faculty	Today	117	60	53	2.1	SE	32.6	20.0	106	0	Yesterday	175	133	49	1.5	NNE	32.4	20.2	127	0
	Yesterday	169	86	62	2.5	SE	30.7	18.3	90	0										

Views of AQI Research Group: **The AQI at all locations in Dayalbagh remained better than that at Sanjay Place. Maximum reduction in pollution levels was observed at Vidyut Nagar. Improvement at Dayalbagh can be attributed to favourable meteorological conditions of low Relative Humidity, high Solar Radiation and Temperatures.**

Remarks of Revered Chairman-ACE:

Received: Thursday, 10 March 2022, 11:04 AM

Thursday, 10 March 2022, 6:00 PM

Good -G | Moderate- M | Unhealthy for Sensitive Groups- UHS

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