Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 5.3.2022

(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 5 - 4 Yesterday March 4 - 3	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: March 5 - 4 Yesterday March 4 - 3	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	153	77	67	3.4	SSE	30.3	15.0	100	0	Today	159	97	61	3.8	N	29.3	15.2	137	0
	Yesterday	157	87	59	1.8	ESE	30.1	16.5	99	0										
3 / 34	Today	158	70	71	3.4	SSE	28.5	15.1	101	0										
	Yesterday	158	74	62	1.8	ESE	29.9	16.3	98	0										
Science Faculty	Today	156	69	73	3.5	SSE	28.4	14.8	94	0	Yesterday	166	110	53	2.0	S	30.8	17.1	134	0
	Yesterday	156	74	63	1.8	ESE	31.0	15.7	90	0										

Views of AQI Research Group: **The AQI at Dayalbagh remained better than that at Sanjay Place. Across the four locations, the pollution levels reduced marginally perhaps due to enhanced Wind Speed and changed Wind Direction.**

Received: Saturday, 5 March 2022, 11:24 AM

Saturday, 5 March 2022, PM

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

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