Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 13.1.2022

(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: Jan 13 -12 Yesterday: Jan 12 - 11	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm	Today: Jan 13 -12 Yesterday: Jan 12 - 11	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm
4 / 97	Today	162	100	83	1.4	WNW	12	51	0	Today	137	100	80	1.1	WSW	8	93	0
	Yesterday	161	106	79	1.9	WNW	14	54	0									
3 / 34	Today	166	100	87	1.4	WNW	12	65	0									
	Yesterday	166	100	82	1.9	WNW	13	70	0	Yesterday	134	94	76	2.5	WNW	9.2	96	0
Science Faculty	Today	158	76	90	3.1	NE	11	51	0									
	Yesterday	162	98	85	3.0	ESE	13	54	0									

Views of AQI Research Group: At Dayalbagh, the PM2.5 AQI as well as PM10.0 AQI have improved over yesterday. At Sanjay Place there has been minor deterioration.

Remarks of Revered Chairman-ACE: Change in Wind Direction and minor increase of Wind Speed at Science Faculty provide explanation to the improvement in AQI there.

Received: Thursday, 13 January 2022, 11:35 AM

Thursday, 13 January 2022, 4:47 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