Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 4.2.2022

(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: Feb 4 –3 / Yesterday Feb 3 - 2	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: Feb 4 –3 / Yesterday Feb 3 - 2	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	163	106	85	4.0	SW	21.0	9.9	35	0	Today	166	148	79	1.9	ENE	21.1	9.1	78	0
	Yesterday	162	109	75	3.6	SE	24.9	11.9	51	0										
3 / 34	Today	161	115	87	4.1	SW	20.4	9.5	52	0										
	Yesterday	167	154	76	3.6	SE	22.4	11.9	77	0										
Science Faculty	Today	200	123	89	1.8	WNW	20.6	9.0	45	0	Yesterday	164	141	69	3.0	SE	23.9	11.1	106	0
	Yesterday	160	150	78	1.8	SW	23.4	11.8	58	0										

Views of AQI Research Group: AQI at Dayalbagh was better than Sanjay Place in last 24 hours. In Dayalbagh, AQI of both Particulate Pollutants reduced / stayed-put at all locations (except Science Faculty) perhaps due to changed Wind Direction and increased Wind Speed (causing dispersal of aerosol). In Sanjay Place, the AQI increased for both Particulate Pollutants perhaps due to drop in Wind Speed and change in Wind Direction.

Remarks of Revered Chairman-ACE: Science Faculty has evidenced increase in PM2.5 concentration as distinct from all other locations including Sanjay Place (which had small increase). The only glaring change in Science Faculty (and a nominal 1-point increase in Vidyut Nagar) are readily explainable because of the Founder's Open Day celebrations).

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