Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 24.2.2022

(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 24 – 23 / Yesterday Feb 23 - 22	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: Feb 24 – 23 / Yesterday Feb 23 - 22	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	184	127	74	2.8	NNE	28.3	15.4	69	0	Today	184	130	66	1.4	NE	27.5	15.9	119	0
	Yesterday	122	68	59	5.0	SSE	28.9	15.5	109	0										
3 / 34	Today	181	113	77	2.8	NNE	26.9	15.4	92	0										
	Yesterday	115	57	61	5.0	SSE	28.3	15.4	86	0										
Science Faculty	Today	184	107	79	2.8	NNE	26.8	14.9	79	0	Yesterday	152	100	55	4.6	SSW	30.2	14.8	139	0
	Yesterday	127	60	61	5.0	SSE	28.9	15.5	91	0										

Views of AQI Research Group: **The AQI at Dayalbagh remained better than that at Sanjay Place. Significant rise in Relative Humidity (RH) and sharp drop in Wind Speed along with changed Wind Direction seem to be the reason for increase in AQI of both Particulate Pollutants across the four locations.**

Remarks of Revered Chairman-ACE:

Received: Thursday, 24 February 2022, 11:11 AM

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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