Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 6.2.2022
(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)								
Today: Feb 6 –5 Yesterday Feb 5 - 4		AQI		Meteorological Parameters							Today: Feb 6 –5 Yesterday Feb 5 - 4		AQI		Meteorological Parameters						
		PM$_{2.5}$	PM$_{10}$	RH %	WS m/s	WD	T °C		SR W/m^2	RF mm			PM$_{2.5}$	PM$_{10}$	RH %	WS m/s	WD	T °C		SR W/m^2	RF mm
							Max	Min										Max	Min		
4 / 97	Today	167	90	78	1.7	SE	23.0	9.4	80	0	Today		151	106	75	1.4	E	19.2	7.1	109	0
	Yesterday	147	80	79	2.9	SW	21.9	7.9	36	0											
3 / 34	Today	154	93	81	1.9	SE	22.7	9.2	79	0							ESE				
	Yesterday	139	66	73	4.4	WNW	19.6	11.4	54	0	Yesterday		117	92	75	1.4		19.1	8.5	89	0
Science Faculty	Today	168	91	85	1.5	SSW	19.8	8.9	65	0											
	Yesterday	173	83	86	1.5	SSW	19.1	7.3	55	0											

Views of AQI Research Group: Change in Wind Direction (WD) seems to have had a surprising effect on AQI at Dayalbagh and Sanjay Place. WD did not change at Science Faculty, and it recorded a reduction in PM2.5 AQI against the trend observed at other locations. Drop in Wind Speed too seems to have contributed to the deterioration across board.

Received: Sunday, 6 February 2022, 12:03 PM

Remarks of Revered Chairman-ACE:

Sunday, 6 February 2022,

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