Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 5.2.2022
(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 5 –4 Yesterday Feb 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: Feb 5 –4 Yesterday Feb 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	147	80	79	2.9	SW	21.9	7.9	36	0	Today		117	92	75	1.4	ESE	19.1	8.5	89	0
	Yesterday	163	106	85	4.0	SW	21.0	9.9	35	0											
3 / 34	Today	139	66	73	4.4	WNW	19.6	11.4	54	0											
	Yesterday	161	115	87	4.1	SW	20.4	9.5	52	0											
Science Faculty	Today	173	83	86	NA*	NA*	19.1	7.3	5s5	0	Yesterday		166	148	79	1.9	ENE	21.1	9.1	78	0
	Yesterday	200	123	89	1.8	WNW	20.6	9.0	45	0											

Views of AQI Research Group: The PM10.0 AQI at Dayalbagh remained better than Sanjay Place. The PM2.5 AQI at Dayalbagh reduced over yesterday however was higher than Sanjay Place due to higher Relative Humidity and perhaps increased activities on account of festive celebrations. *Wind equipment malfunctioned. Vendor to troubleshoot within 24 hours.

Received: Saturday, 5 February 2022, 11:37 AM

Remarks of Revered Chairman-ACE:

Saturday, 5 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