Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Dated: 26.2.2022
(BASED ON US-EPA AIRQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean) : PM$_{10}$ = 150; PM$_{2.5}$ = 35, all units are in µg/m³ | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

Date Today: Feb 26 – 25 Yesterday Feb 25 - 24		DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date Today: Feb 26 – 25 Yesterday Feb 25 - 24		SANJAY PLACE (ARITHMETIC MEAN DATA)								
		AQI		Meteorological Parameters									AQI		Meteorological Parameters						
		PM$_{2.5}$	PM$_{10}$	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm			PM$_{2.5}$	PM$_{10}$	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm
4 / 97	Today	129	83	64	2.7	S	29.4	15.7	73	0	Today		161	114	57	2.9	SSE	30.0	15.5	120	0
	Yesterday	154	118	68	1.7	ENE	30.4	16.6	73	0											
3 / 34	Today	122	67	66	2.7	S	28.3	15.7	85	0											
	Yesterday	162	108	76	1.7	ENE	29.7	15.8	82	0	Yesterday		185	154	61	1.0	NNW	29.4	17.2	109	0
Science Faculty	Today	122	66	67	2.7	S	29.0	15.4	80	0											
	Yesterday	177	99	73	1.7	ENE	29.8	15.4	78	0											

Views of AQI Research Group: Fifth day in a row, the AQI at Dayalbagh remained better than that at Sanjay Place for both the Particulate Pollutants. Drop in the Relative Humidity, changed Wind Direction and increased Wind Speed provide explanation for the significant improvement in AQI.

Received: Saturday, 26 February 2022, 10:55 AM

Remarks of Revered Chairman-ACE:

Saturday, 26 February 2022, 4:30 PM

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