Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.2.2022
(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 Today: Feb 27 – 26 Yesterday Feb 26 - 25		DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date Today: Feb 27 – 26 Yesterday Feb 26 - 25		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/m^2	RF mm			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	89	53	72	4.0	N	25.5	14.0	77	0	Today		107	91	53	5.8	SSE	25.9	19.1	328*	0
	Yesterday	129	83	64	2.7	S	29.4	15.7	73	0											
3 / 34	Today	84	40	74	4.0	N	24.6	14.2	88	0											
	Yesterday	122	67	66	2.7	S	28.3	15.7	85	0	Yesterday		161	114	57	2.9	SSE	30.0	15.5	120	0
Science Faculty	Today	80	39	75	4.0	N	25.0	14.0	84	0											
	Yesterday	122	66	67	2.7	S	29.0	15.4	80	0											

Views of AQI Research Group: Sixth day in a row the AQI at Dayalbagh remained better than that at Sanjay Place for both Particulate Pollutants. At Dayalbagh, the Pollutant Concentrations are within the USEPA permissible levels and have drastically dropped compared to yesterday despite the increase in Relative Humidity and lower Temperatures. Probably, 180° change in Wind Direction, increase in Wind Speed and Solar Radiation explain the improvement in AQI.

* The Sanjay Place values pertain to only the daylight hours as the UPPCB server systems went down after 5 pm yesterday.

Remarks of Revered Chairman-ACE:

Received: Sunday, 27 February 2022, 11:41 AM

Sunday, 27 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