Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 15.1.2022
(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: Jan 15 -14 Yesterday: Jan 14 - 13		AQI		Meteorological Parameters						Today: Jan 15 -14 Yesterday: Jan 14 - 13		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
4 / 97	Today	163	111	88	1.4	SSW	11	46	0	Today		166	139	83	1.2	ESE	10.8	80	0
	Yesterday	164	103	79	0.9	SW	13	54	0										
3 / 34	Today	167	116	91	1.4	SSW	11	56	0	Yesterday		171	155	74	0.7	W	12	95	0
	Yesterday	173	92	83	1.0	SSW	12	65	0										
Science Faculty	Today	184	117	93	3.1	NNE	11	48	0										
	Yesterday	183	99	86	3.3	NNE	11	51	0										

Views of AQI Research Group: AQI at Dayalbagh continues to be better than AQI at Sanjay Place. Drop in Solar Radiation & Temperature and rise in Relative Humidity (RH) across Dayalbagh seem to have impacted AQI adversely. Highest RH and different Wind Direction at Science Faculty provide some explanation for readings being mildly higher. Different Wind Direction at Sanjay Place may explain why there is drop in AQI over yesterday.

Remarks of Revered Chairman-ACE:

Received: Saturday, 15 January 2022, 11:33 AM

Saturday, 15 January 2022, 05:26 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