Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 14.1.2022

(BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

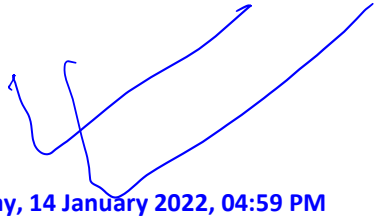
Permissible Limits (24 Hour Mean) : PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m^3 Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								Date	SANJAY PLACE (ARITHMETIC MEAN DATA)							
		AQI		Meteorological Parameters							AQI		Meteorological Parameters					
	Today: Jan 14 -13 Yesterday: Jan 13 - 12	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T ˚C	SR W/m^2	RF mm	Today: Jan 14 -13 Yesterday: Jan 13 - 12	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T ˚C	SR W/m^2	RF mm
4 / 97	Today	164	103	79	0.9	SW	13	54	0	Today	171	155	74	0.7	W	12	95	0
	Yesterday	162	100	83	1.4	WNW	12	51	0									
3 / 34	Today	173	92	83	1.0	SSW	12	65	0									
	Yesterday	166	100	87	1.4	WNW	12	65	0	Yesterday	137	100	80	1.1	WSW	8	93	0
Science Faculty	Today	183	99	86	3.3	NNE	11	51	0									
	Yesterday	158	76	90	3.1	NE	11	51	0									

Views of AQI Research Group: The AQI at Dayalbagh for PM2.5 and PM10.0 are is better than that at Sanjay Place. Wind Direction seems to be the differentiating factor. Minor increase over previous 24 hours can be attributed to lower wind speed at all locations except for Science Faculty.

Remarks of Revered Chairman-ACE:

Received: Friday, 14 January 2022, 03:49 PM



Friday, 14 January 2022, 04:59 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