Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 23.1.2022

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

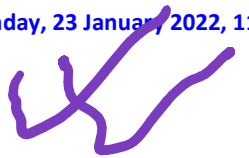
Permissible Limits (24 Hour Mean) : PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m^3 | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		AQI		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: Jan 23 -22 Yesterday: Jan 22 - 21	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: Jan 23 -22 Yesterday: Jan 22 - 21	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	168	148	87	4.5	E	17.7	12.2	31	4	Today	157	113	82	3.1	ESE	17.6	11.6	58	5.5
	Yesterday	198	134	91	2.1	ESE	16.9	9.7	20	3										
3 / 34	Today	168	147	89	4.6	E	17.7	12.1	47	4										
	Yesterday	210	163	95	2.5	ESE	15.7	9.4	34	3										
Science Faculty	Today	172	126	89	4.0	WNW	17.7	12.1	40	4	Yesterday	178	173	87	1.2	S	15.8	8.5	60	3.75
	Yesterday	195	100	95	3.3	SW	16.4	9.3	30	3										

Views of AQI Research Group: Rainfall, rise in Temperature & Wind Speed and drop in Relative Humidity(RH) reduced the PM2.5 AQI across locations. Prem Nagar and Sanjay Place witnessed a drop in PM10.0 AQI too. There is no change of category for PM10.0 AQI in other locations. RH at Dayalbagh continues to be higher than Sanjay Place.

Remarks of Revered Chairman-ACE:

Received: Sunday, 23 January 2022, 11:55 AM



Sunday, 23 January 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