Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 17.1.2022

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

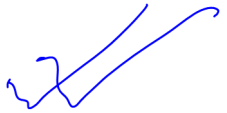
Permissible Limits (24 Hour Mean) : PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m^3 | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								Date	SANJAY PLACE (ARITHMETIC MEAN DATA)							
		AQI		Meteorological Parameters							AQI		Meteorological Parameters					
	Today: Jan 17 -16 Yesterday: Jan 16 - 15	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm	Today: Jan 17 -16 Yesterday: Jan 16 - 15	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm
4 / 97	Today	167	132	85	0.7	WSW	10	23	0	Today	155	120	81	0.9	W	9	55	0
	Yesterday	164	149	82	1.6	SSW	10	24	0									
3 / 34	Today	173	118	87	0.7	WSW	10	36	0									
	Yesterday	157	150	85	1.7	SSW	10	27	0	Yesterday	157	119	76	1.1	WSW	9.5	45	0
Science Faculty	Today	190	126	89	2.9	NE	10	32	0									
	Yesterday	168	127	86	3.3	NE	10	26	0									

Views of AQI Research Group: At Dayalbagh, change in Wind Direction, reduced Wind Speed and slight increase in Relative Humidity seem to have mildly increased the PM2.5 AQI. The PM10.0 AQI has reduced in Dayalbagh. Lower AQI at Sanjay Place is perhaps due to different Wind Direction.

Remarks of Revered Chairman-ACE: Appropriate Research may be conducted under the guidance of the Expert Committee for Agroecology including invited specialists for participation in Video-conferencing mode to understand relatively large variation in respect of PM 2.5 at Science Faculty and Prem Nagar sites while Vidyut Nagar location seems to be marginally affected.

Received: Monday, 17 January 2022, 11:36 AM



Monday, 17 January 2022, 02:39 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