Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 8.1.2022

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

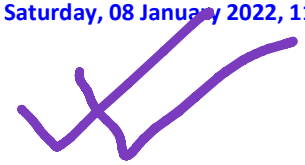
Permissible Limits (24 Hour Mean) : PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m³ | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								Date	SANJAY PLACE (ARITHMETIC MEAN DATA)							
		AQI		Meteorological Parameters							AQI		Meteorological Parameters					
	Today: Jan 8 - 7 Yesterday: Jan 7 - 6	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today: Jan 8 - 7 Yesterday: Jan 7 - 6	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	Today	152	77	90	4.1	SE	17	27	9.6	Today	95	54	83	2.4	SW	14	45	9.6
	Yesterday	166	113	89	3.5	SE	15	28	0.5									
3 / 34	Today	134	69	91	4.0	SE	17	31	9.6									
	Yesterday	169	106	91	3.5	SE	15	30	0.5									
Science Faculty	Today	158	77	92	2.5	WSW	17	28	9.6	Yesterday	153	73	84	2.2	SE	11.6	44	1.0
	Yesterday	160	121	92	1.9	SSE	15	28	0.5									

Views of AQI Research Group: Rainfall in particular and Wind Speed have reduced AQI appreciably (ie positive impact) across locations. Even though PM10.0 across locations remained in MODERATE category.

Remarks of Revered Chairman-ACE:

Received: Saturday, 08 January 2022, 11:36 AM



Saturday, 08 January 2022,

Good -G | Moderate- M | Unhealthy for Sensitive Groups- US | Unhealthy for All-UH | 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