Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.1.2022

(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						
		$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm		$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
	Today: Jan 20 -19										Today: Jan 20 -19									
	Yesterday: Jan 19 - 18										Yesterday: Jan 19 - 18									
4 / 97	Today	249	339	90	1.0	S	13.3	7.6	14	0	Today	190	245	86	0.6	ESE	11.3	6.2	32	0
	Yesterday	155	110	91	2.1	WNW	11.0	5.9	14	0										
3 / 34	Today	282	410	93	1.0	SSW	12.7	7.1	18	0										
	Yesterday	170	124	95	2.1	WNW	10.2	5.9	17	0	Yesterday	162	130	89	0.9	SSW	9.0	3.9	30	0
Science Faculty	Today	286	163	94	2.0	SSW	12.8	7.0	19	0										
	Yesterday	185	108	96	2.3	E	10.2	5.9	17	0										

Views of AQI Research Group: Decrease in Wind Speed causes drop in dispersal of pollutants thus seems to have caused increase in AQI across locations. Lack of sunlight for over 4 to 5 days has led to increase in wood burning on Dayalbagh Road. PB Gur Prasad confirmed that maximum Addition/Alteration work in houses is happening in Prem Nagar (about 13-14 houses) and paint scraping & re-painting work is being carried out by Mohalla Residents as well. This seems to have added to the temporary spurt. Even in Vidyut Nagar the construction activity is there but lesser. For Science Faculty, PB Vipin Layal has confirmed that there was no construction activity taking place.

Remarks of Revered Chairman-ACE:

Received: Thursday, 20 January 2022, 12:25 PM

Thursday, 20 January 2022, 04:35 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