Radhasoami Dayal Ki Daya Radhasoami Sahai

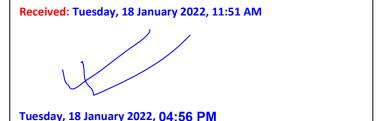
AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 18.1.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

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

	Date	DAYALBAGH								Date SANJAY PLACE								
	Today:	(TIME WEIGHTED AVERAGE DATA)								Today:	(ARITHMETIC MEAN DATA)							
		AQI		Meteorological Parameters					,	AQI		Meteorological Parameters						
	Jan 18 -17	: PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	Т	SR	RF	Jan 18 -17		PM10	RH %	WS m/s	WD	Т	SR	RF
	Yesterday:						°C	W/m ²		Yesterday: PM _{2.5} Jan 17 - 16	PM _{2.5}							
	Jan 17 - 16								mm							°C	W/m ²	mm
4 / 97	Today	165	141	87	1.0	W	9	19	0									
	Yesterday	167	132	85	0.7	WSW	10	23	0	Today	160	134	85	1.3	WSW	7.3	33	0
3 / 34	Today	167	115	91	1.0	W	9	21	0									
	Yesterday	173	118	87	0.7	WSW	10	36	0									
Science Faculty	Today	186	100	92	2.1	ENE	9	22	0	Yesterday	155	120	81	0.9	W	9	55	0
	Yesterday	190	126	89	2.9	NE	10	32	0									

Views of AQI Research Group: At Dayalbagh the PM10.0 AQI and PM2.5 AQI have reduced over yesterday (a bit of exception being Vidyut Nagar for PM2.5). At Sanjay Place there has been an increase in the AQI of both the particulate pollutants. At Dayalbagh and Sanjay Place the change seems to be largely driven by change in Wind Direction.

Remarks of Revered Chairman-ACE: The concerned Research Groups in DEI may invetigate why there is a marked change in trend as well as magnitude between Science Faculty on one hand and two residential areas on the other which may be due to fault in meters at one or more locations as well as maintenance operations in progress at these locations.



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 –

$$I = \frac{I_{\text{high}} - I_{\text{low}}}{C_{\text{high}} - C_{\text{low}}} * (C - C_{\text{low}}) + I_{\text{low}}$$

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