Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 5.5.2022

(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)								
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: May 5 – 4 / Yesterday: May 4 – 3	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: May 5 – 4 / Yesterday: May 4 – 3	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	57	52	54	3.0	SSE	41.3	25.3	142	0	Today	124	115	47	3.6	ENE	44.8	26.2	171	0
	Yesterday	82	80	50	3.6	W	41.1	30.5	131	0										
3 / 34	Today	72	35	54	3.0	SSE	41.0	25.3	148	0										
	Yesterday	110	60	52	3.7	W	40.1	30.4	122	0										
Science Faculty	Today	70	35	55	3.0	SSE	41.3	25.1	135	0	Yesterday	164	196	45	2.7	NNE	42.4	32.4	157	0
	Yesterday	107	60	52	3.7	W	40.1	30.3	125	0										

Views of AQI Research Group: Concentration levels of both the micron Particulate Pollutants decreased across all locations probably due to change in Wind Direction, increase in Solar Radiation and Maximum Temperature. The $PM_{10.0}$ AQI at Prem Nagar and Science Faculty got restored to the *Good Category*. The Air Quality at Sanjay Place also improved to *Unhealthy for Sensitive Groups Category* w.r.t both $PM_{2.5}$ and $PM_{10.0}$.

Remarks of Revered Chairman-ACE:

Received: Thursday, 5 May 2022, 10:47 AM

Perused: Subject to Legalese / Legalise / "Laws of the Land"

Thursday, 5 May 2022, 5:15 PM

Good -G | Moderate- M | Unhealthy for Sensitive Groups- UHS | Unhealthy for All- UHA | Very Unhealthy for All-VUHA | Hazardous for All- HZA | Hazardous for All-HZA

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