Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.3.2022

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

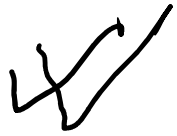
Permissible Limits (24 Hour Mean) : PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m^3 | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		AQI		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: March 20 - 19 / Yesterday: March 19 - 18	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: March 20 - 19 / Yesterday: March 19 - 18	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	161	90	56	2.0	ENE	39.5	24.0	125	0	Today	171	116	49	1.9	SSE	40.3	24.6 ?	153	0
	Yesterday	158	91	59	2.2	SSE	36.3	23.7	120	0										
3 / 34	Today	161	82	58	2.0	ENE	38.9	23.8	109	0										
	Yesterday	153	82	61	2.2	SSE	36.2	23.5	104	0										
Science Faculty	Today	163	88	60	2.0	ENE	38.9	23.3	114	0	Yesterday	174	118	51	1.6	SSE	38.5	25.7	147	0
	Yesterday	155	88	63	2.2	SSE	36.6	22.5	109	0										

Views of AQI Research Group: The AQI at the Dayalbagh sites remained better than that at Sanjay Place. There is marginal increase in PM2.5 values at the Dayalbagh sites, probably associated with change in Wind Direction.

Remarks of Revered Chairman-ACE:

Received: Sunday, 20 March 2022, 11:41 AM



Sunday, 20 March 2022, PM

Good -G | Moderate- M | Unhealthy for Sensitive Groups- UHS

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