Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.3.2022
(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 Today: March 19 - 18 Yesterday March 18 - 17	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)										Date Today: March 19 - 18 Yesterday March 18 - 17	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
4 / 97 Today	158	91	59	2.2	SSE	36.3	23.7	120	0		Today	174	118	51	1.6	SSE	38.5	25.7	147	0
4 / 97 Yesterday	144	111	62	3.1	ENE	37.9	25.5	106	0											
3 / 34 Today	153	82	61	2.2	SSE	36.2	23.5	104	0											
3 / 34 Yesterday	152	101	64	3.1	ENE	35.9	25.4	111	0											
Science Faculty Today	155	88	63	2.2	SSE	36.6	22.5	109	0		Yesterday	196	149	55	2.2	SSE	38.4	26.1	154	0
Science Faculty Yesterday	153	104	67	3.1	ENE	36.1	25.2	120	0											

Views of AQI Research Group: The AQI at the Dayalbagh sites remained better than that at Sanjay Place for both the Particulate Pollutants. At Dayalbagh, PM10.0 levels decreased, probably due to reduced Relative Humidity and changed Wind Direction. However, the PM2.5 levels had very marginal increase, perhaps due to increase in vehicular traffic owing to the Holi celebrations at Dayalbagh.

Remarks of Revered Chairman-ACE:

Received: Saturday, 19 March 2022, 12:18 PM
Perused:

Saturday, 19 March 2022, 4:30 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