Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.4.2022

(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)

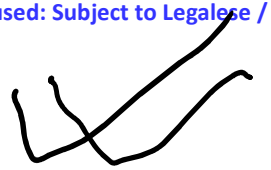
	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: April 16 – 15 Yesterday April 15 - 14	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: April 16 – 15 Yesterday April 15 - 14	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	55	69	28	2.9	ENE	43.3	27.6	128	0	Today	155	152	29	2.7	SE	44.7	30.2	179	0
	Yesterday	63	84	29	3.1	SSE	42.9	28.3	137	0										
3 / 34	Today	68	48	29	2.9	ENE	42.4	27.2	139	0										
	Yesterday	74	55	30	3.1	SSE	41.5	28.1	135	0										
Science Faculty	Today	61	48	30	3.0	ENE	42.5	26.4	150	0	Yesterday	154	180	28	2.9	SE	43.7	29.5	173	0
	Yesterday	74	58	30	3.1	SSE	40.8	28.9	138	0										

Views of AQI Research Group: Compared to yesterday, AQI levels have decreased at the Dayalbagh sites for both the Particulate Pollutants. Change in Wind Direction and increase in Maximum Temperature seem to be the Meteorological reasons for better Air Quality at Dayalbagh, apart from the various community level, social and scientific initiatives, taken by Dayalbagh for managing a World Class Health Care Habitat. PM10.0 AQI at Prem Nagar and Science Faculty was in GOOD Category. The AQI at Dayalbagh remained within the US-EPA Permissible limits.

Remarks of Revered Chairman-ACE: Very low Humidity is not good for us. It is easier for people to work in moderate Humidity, though low Humidity may aid lower AQI.

Received: Saturday, 16 April 2022, 11:49 AM

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



Saturday, 16 April 2022, 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