Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 22.1.2022
(BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean) :   PM₁₀ = 150; PM₂.₅ = 35, all units are in μg/m³ | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

Date Today: Jan 22 -21 Yesterday: Jan 21 - 20		DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date Today: Jan 22 -21 Yesterday: Jan 21 - 20		SANJAY PLACE (ARITHMETIC MEAN DATA)								
		AQI		Meteorological Parameters									AQI		Meteorological Parameters						
		PM₂.₅	PM₁₀	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm			PM₂.₅	PM₁₀	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m²	RF mm
4 / 97	Today	198	134	91	2.1	ESE	16.9	9.7	20	3	Today		178	173	87	1.2	S	15.8	8.5	60	3.75
	Yesterday	179	178	89	1.4	E	17.4	8.9	36	0											
3 / 34	Today	210	163	95	2.5	ESE	15.7	9.4	34	3	Yesterday		165	140	84	1.0	SE	16.3	7.6	70	0
	Yesterday	185	174	91	1.3	E	16.9	8.9	46	0											
Science Faculty	Today	195	100	95	3.3	SW	16.4	9.3	30	3											
	Yesterday	194	100	93	2.2	WNW	17.1	9.0	40	0											

Views of AQI Research Group: The PM10.0 AQI improved at all three locations in Dayalbagh but increased in Sanjay Place. Seems to be impacted by rainfall and increased Wind Speed. PM2.5 increased at Prem Nagar, Vidyut Nagar and Sanjay Place while remained stagnant at Science Faculty. Seems to be more an impact of local activity like construction / traffic movement.

Remarks of Revered Chairman-ACE:

Received: Saturday, 22 January 2022, 1:23 PM

Saturday, 22 January 2022,

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 PM₂.₅ 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