Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 25.2.2022
(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)								
Today: Feb 25 – 24 **Yesterday** Feb 24 - 23		AQI		Meteorological Parameters							**Today:** Feb 25 – 24 **Yesterday** Feb 24 - 23	AQI		Meteorological Parameters						
		PM$_{2.5}$	PM$_{10}$	RH %	WS m/s	WD	T °C		SR W/m^2	RF mm		PM$_{2.5}$	PM$_{10}$	RH %	WS m/s	WD	T °C		SR W/m^2	RF mm
							Max	Min									Max	Min		
4 / 97	Today	154	118	68	1.7	ENE	30.4	16.6	73	0	Today	185	154	61	1.0	NNW	29.4	17.2	109	0
	Yesterday	184	127	74	2.8	NNE	28.3	15.4	69	0										
3 / 34	Today	162	108	76	1.7	ENE	29.7	15.8	82	0										
	Yesterday	181	113	77	2.8	NNE	26.9	15.4	92	0	Yesterday	184	130	66	1.4	NE	27.5	15.9	119	0
Science Faculty	Today	177	99	73	1.7	ENE	29.8	15.4	78	0										
	Yesterday	184	107	79	2.8	NNE	26.8	14.9	79	0										

Views of AQI Research Group: It is observed that Solar Radiation across locations has reduced (deviation at Vidyut Nagar to be investigated), however the Temperatures have risen. Perhaps the day-time haze cover yesterday caused mild green-house effect. With increased Temperature the Relative Humidity dropped thus reducing the AQI of both Particulate Pollutants at Dayalbagh. Reduced Wind Speed could be the cause of increase in PM10.0 values at Sanjay Place. AQI of Dayalbagh remained better than that at Sanjay Place.

Remarks of Revered Chairman-ACE: Perused : Further immediate reports are required

Received: Friday, 25 February 2022, 10:32 AM

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 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