Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 17.12.2021
(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

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA) AQI PM$_{2.5}$ Today Dec 17 – Dec 16	Yesterday Dec 16 – Dec 15	PM$_{10}$ Today Dec 17 – Dec 16	Yesterday Dec 16 – Dec 15	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm	SANJAY PLACE (ARITHMETIC MEAN DATA) AQI PM$_{2.5}$ Today Dec 17 – Dec 16	Yesterday Dec 16 – Dec 15	PM$_{10}$ Today Dec 17 – Dec 16	Yesterday Dec 16 – Dec 15	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm
4 / 97	09:00 am – 09:00am	170 UH	186 UH	97 M	115 US	69 ---- 74	2.9 ---- 1.8	S ---- S	16 ---- 17	44 ---- 48	0 ---- 0										
3 / 34	09:00 am – 09:00am	160 UH	172 UH	127 US	105 US	70 ---- 77	2.8 ---- 1.8	S ---- S	16 ---- 17	47 ---- 46	0 ---- 0	168 UH	179 UH	99 M	118 US	62 ---- 66	2.3 ---- 1.0	SE ---- E	13 ---- 14	82 ---- 92	0 ---- 0
Science Faculty	09:00 am – 09:00 am	164 UH	208 VUH	148 US	123 US	73 ---- 80	2.0 ---- 2.3	SSW ---- ESE	16 ---- 17	43 ---- 45	0 ---- 0										

Meteorological Parameters @ Dayalbagh — Today --- Yesterday
Meteorological Parameters @ Sanjay Place — Today --- Yesterday

Views of AQI Group: Marginal decrease in Relative Humidity and increase in Wind Speed has resulted in dispersal of pollutants resulting in improvement of Air Quality (4 out of 6 data points) at Dayalbagh and both data points at Sanjay Place. Relative humidity at Dayalbagh continues to be significantly higher compared to Sanjay Place.

Remarks of Revered Chairman-ACE:

Received – Friday, 17 December 2021, 12:02 PM

Friday, 17 December 2021, 5:40 PM

Good -G	Moderate- M	Unhealthy for Sensitive Groups- US	Unhealthy for All-UH	Very Unhealthy for All-VUH	Hazardous for All- H	Hazardous for All-H

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