Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 18.12.2021
(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 $\mu g/m^3$

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA) AQI PM2.5 Today Dec 18–Dec 17	PM2.5 Yesterday Dec 17–Dec 16	PM10 Today Dec 18–Dec 17	PM10 Yesterday Dec 17–Dec 16	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	SANJAY PLACE (ARITHMETIC MEAN DATA) AQI PM2.5 Today Dec 18–Dec 17	PM2.5 Yesterday Dec 17–Dec 16	PM10 Today Dec 18–Dec 17	PM10 Yesterday Dec 17–Dec 16	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	09:00 am – 09:00am	165 UH	170 UH	134 US	97 M	65 ---- 69	3.5 ---- 2.9	NW ---- S	13 ---- 16	46 ---- 44	0 ---- 0										
3 / 34	09:00 am – 09:00am	165 UH	160 UH	122 US	127 US	65 ---- 70	3.5 ---- 2.8	NW ---- S	13 ---- 16	55 ---- 47	0 ---- 0	154 UH	168 UH	76 M	99 M	59 ---- 62	3.6 ---- 2.3	ENE ---- SE	10 ---- 13	104 ---- 82	0 ---- 0
Science Faculty	09:00 am – 09:00 am	158 UH	164 UH	115 US	148 US	69 ---- 73	3.6 ---- 2.0	NNE ---- SSW	13 ---- 16	46 ---- 43	0 ---- 0										

Views of AQI Group: Marginal decrease in Relative Humidity and increase in Wind Speed and Solar radiation has resulted in dispersal of pollutants resulting in improvement of Air quality at both sites.

Remarks of Revered Chairman-ACE: Further clarifications are needed so that final suggestions may be made authentically.

Saturday, 18 December 2021, 11:42 AM

December 2021,

Good -G	Moderate- M	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 PM2.5 concentration readings are fed in USEPA online calculator for AQI calculation.

3 Formula for AQI calculation for a Pollutant –

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

$$I = \frac{I_{high} - I_{low}}{C_{high} - C_{low}} * (C - C_{low}) + I_{low}$$