Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 25.12.2021
(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/m³

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)										SANJAY PLACE (ARITHMETIC MEAN DATA)									
		AQI				Meteorological Parameters @ Dayalbagh Today / Yesterday						AQI				Meteorological Parameters @ Sanjay Place Today / Yesterday					
		$PM_{2.5}$		PM_{10}								$PM_{2.5}$		PM_{10}							
		Today Dec 25 – Dec 24	Yesterday Dec 24 – Dec 23	Today Dec 25 – Dec 24	Yesterday Dec 24 – Dec 23	RH %	WS m/s	WD	T °C	SR W/m² Visible Region	RF mm	Today Dec 25 – Dec 24	Yesterday Dec 24 – Dec 23	Today Dec 25 – Dec 24	Yesterday Dec 24 – Dec 23	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	09:00 am – 09:00am	190 UH	160 UH	120 US	105 US	72 ---- 68	1.6 ---- 1.6	E ---- ESE	16 ---- 16	47 ---- 41	0 ---- 0	228 VUH	185 UH	198 UH	166 UH	65 ---- 62	0.8 ---- 1.1	S ---- W	14 ---- 13	97 ---- 83	0 ---- 0
3 / 34	09:00 am – 09:00am	190 UH	163 UH	113 US	106 US	72 ---- 69	1.6 ---- 1.6	E ---- ESE	16 ---- 16	56 ---- 45	0 ---- 0										
Science Faculty	09:00 am – 09:00 am	205 VUH	163 UH	97 M	103 US	77 ---- 72	1.9 ---- 1.7	SSW ---- SW	16 ---- 16	44 ---- 37	0 ---- 0										

Views of AQI Research Group: All 6 AQI data points (3 of PM2.5 and 3 of PM10.0) of Dayalbagh are better than that of Sanjay Place. Comparing Today Vs Yesterday for Dayalbagh, there has been a deterioration owing to increase in RH. Slippage of PM2.5 at Science Faculty and Sanjay Place is perhaps due to nearly the same wind direction (SSW – S).

Remarks of Chairman-ACE: At Science Faculty – Upgrade and Modernize with due weightage as Health Care Habitat, invoking not only National guidelines (such as at IARI, New Delhi) but also international norms as laid down by WHO.

urday, 25 December 2021, 12:50 PM

ecember 2021,

Good -G | Moderate- M | ensitive 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