Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.12.2021
(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 27 – Dec 26	Yesterday Dec 26 – Dec 25	Today Dec 27 – Dec 26	Yesterday Dec 26 – Dec 25	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today Dec 27 – Dec 26	Yesterday Dec 26 – Dec 25	Today Dec 27 – Dec 26	Yesterday Dec 26 – Dec 25	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	09:00 am – 09:00am	192 UH	333 H	120 US	212 VUH	77 ---- 72	2.5 ---- 1.6	ENE ---- E	17 ---- 16	38 ---- 47	0 ---- 0										
3 / 34	09:00 am – 09:00am	184 UH	318 H	107 US	218 VUH	77 ---- 72	2.5 ---- 1.6	ENE ---- E	17 ---- 16	43 ---- 56	0 ---- 0	192 UH	334 H	148 US	325 H	70 ---- 69	1.4 ---- 0.6	SSW ---- S	15 ---- 14	70 ---- 80	0 ---- 0
Science Faculty	09:00 am – 09:00 am	277 VUH	345 H	110 US	139 US	80 ---- 77	1.9 ---- 1.9	SW ---- SSW	17 ---- 16	39 ---- 44	0 ---- 0										

Views of AQI Research Group: At Dayalbagh, 5 out of 6 AQI data points are better than that at Sanjay Place with PM2.5 at Science Faculty as the only exception. There is across the board improvement in AQI over yesterday at Dayalbagh as well as Sanjay Place. Wind speed and RH at Dayalbagh continue to remain higher vis-à-vis Sanjay Place.

nday, 27 December 2021, 1:16 PM

Remarks of Revered Chairman-ACE:

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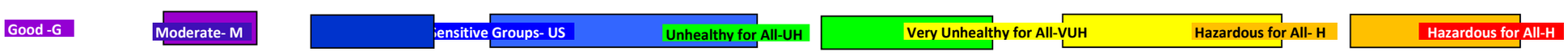

NOTE: 1 A continuous study conducted as part of **Dayalbagh Sigma Six Qualities and Values Model** implementation.
2 DEI is using United States Environmental Protection Agency (USEPA) methodology and online calculators to calculate AQI. For fair comparison with UPPCB Sanjay Place Weather Station readings, 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