Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.11.2021
(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)										SANJAY PLACE (ARITHMETIC MEAN DATA)								
		AQI				Meteorological Parameters @ Dayalbagh						AQI				Meteorological Parameters @ Sanjay Place					
		$PM_{2.5}$		PM_{10}								$PM_{2.5}$		PM_{10}							
		Today Nov 12 – Nov 10	Yesterday Nov 11 – Nov 10	Today Nov 12 – Nov 10	Yesterday Nov 11 – Nov 10	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today Nov 12 – Nov 10	Yesterday Nov 11 – Nov 10	Today Nov 12 – Nov 10	Yesterday Nov 11 – Nov 10	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	09:00 am – 09:00am	349 H	292 VUH	245 VUH	142 US	68	1.3	S	21	53	0										
3 / 34	09:00 am – 09:00am	338 H	321 H	183 UH	132 US	71	1.3	S	21	56	0	390 H	349 H	370 H	284 VUH	51	0.8	ENE	19	108	0
Science Faculty	09:00 am – 09:00 am	345 H	327 H	178 UH	129 US	73	2.3	NNE	21	48	0										

Received - Friday, 12 November 2021, 2:02 PM

Friday, 12 November 2021,

| Good G | Moderate M | or 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 -

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

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