Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 7.08.2021

Permissible Limits: PM$_{10}$ = 100; PM$_{2.5}$ = 60, all units are in μg/m³

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								SANJAY PLACE (ARITHMETIC MEAN DATA)							
		AQI On The Basis of PM$_{2.5}$ Concentration		Meteorological Parameters @ Dayalbagh						AQI On The Basis of PM$_{2.5}$ Concentration		Meteorological Parameters @ Sanjay Place					
		Today Aug 7- Aug 6	Yesterday Aug 6.- Aug 5	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today Aug 7- Aug 6	Yesterday Aug 6.- Aug 5	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	12:00 noon – 12:00 noon	119 Moderate	99 Satisfactory	80	2.6	NE	31	118	1								
3 / 34	12:00 noon – 12:00 noon	102 Moderate	82 Satisfactory	82	2.9	NE	31	105	1	110 Moderate	93 Satisfactory	80	1.0	SSE	30	16	1
Science Faculty	12:00 noon – 12:00 noon	107 Moderate	87 Satisfactory	82	2.5	SSW	31	105	1								

22 October 2021

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