Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.08.2021

Permissible Limits: PM_{10} = 100; $PM_{2.5}$ = 60, 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 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 20-Aug 19	Yesterday Aug 19-Aug 18	RH %	WS m/s	WD	T ℃	SR W/m²	RF mm	Today Aug 20-Aug 19	Yesterday Aug 19-Aug 18	RH %	WS m/s	WD	T℃	SR W/m²	RF mm
4 / 97	12:00 noon – 12:00 noon	119 Moderate	117 Moderate	71	3.4	E	32	92	0	82 Satisfactory							
3 / 34	12:00 noon – 12:00 noon	110 Moderate	112 Moderate	71	3.4	E	32	84	0		97 Satisfactory	65	1.9	SW	30	123	0
Science Faculty	12:00 noon – 12:00 noon	112 Moderate	117 Moderate	72	2.6	SW	32	88	0								

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