## Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.09.2021

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 <sub>2.5</sub> Concentration			Meteorological Parameters @ Dayalbagh					AQI On The Basis of PM <sub>2.5</sub> Concentration		Meteorological Parameters @ Sanjay Place					
		Today Sep 19- Sep 18	Yesterday Sep 18- Sep 17	RH %	WS m/s	WD	T °C	SR W/ m <sup>2</sup>	RF mm	Today Sep 19- Sep 18	Yesterday Sep 18- Sep 17	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	12:00 noon - 12:00 noon	70 Satisfactory	57 Satisfactory	86	3.7	E	28	86	5								
3 / 34	12:00 noon - 12:00 noon	70 Satisfactory	53 Satisfactory	88	3.7	E	28	78	5	61 Satisfactory	57 Satisfactory	79	1.5	ENE	NA	133	7
Science Faculty	12:00 noon - 12:00 noon	NA	NA	NA	NA	NA	NA	NA	5								

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<sub>25</sub> concentration readings are fed in USEPA online calculator for AQI calculation.

3 Formula for AQI calculation for a Pollutant -

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

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