## Radhasoami Dayal Ki Daya Radhasoami Sahai AIR QUALITY MONITORING REPORT - Dated: 22.07.2021

## Permissible Limits: $PM_{10} = 100$ ; $PM_{2.5} = 60$ , all units are in $\mu g/m^3$

Sampling Site and Height	Duration of Sampling 24 Hrs	DAYALBAGH (Time Weighted Average)								SANJAY PLACE @ 40 feet (Arithmetic Mean)										AIR QUALITY INDEX (AQI) ON THE BASIS OF PM2.5 CONCENTRATION					
		PM₁₀[µg/m³]		ΡM <sub>2.5</sub> [μg/m³]			Meteorological Parameters					$PM_{10}[\mu g/m^3]$ Calculated on the basis of $PM_{10}/PM_{2.5}$ ratio at Dayalbagh		PM <sub>25</sub> [µg/m³] @ 40 feet		Meteorological Parameters				'S	DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet		
		Today 22.7.21- 21.7.21	Yesterday 21.7.21- 20.7.21	Today 22.7.21- 21.7.21	Yesterday 21.7.21- 20.7.21	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today 22.7.21- 21.7.21	Yesterday 21.7.21- 20.7.21	Today 22.7.21- 21.7.21	Yesterday 21.7.21- 20.7.21	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today 22.7.21- 21.7.21	Yesterday 21.7.21- 20.7.21	Today 22.7.21- 21.7.21	Yesterday 21.7.21- 20.7.21
4/97 @ 40 feet	12:00- 12:00	<b>√</b> +23	25	<b>√</b> +17	18	80	2.5	SE	30	109	0	+26 3			19	74		SSE	30	169	0	61 Satisfactory	63 Satisfactory	66	66 Satisfactory
3/34 @ 40 feet	12:00- 12:00	<b>√</b> +19	20	<b>√</b> +12	12	79	2.7	Е	30	110	0		30	+19			1.1					50 Good	50 Good		
Science Faculty @ 40 feet	12:00- 12:00	<b>√</b> +18	20	<b>√</b> +12	12	79	4.5	WSW	30	108	0											50 Good	50 Good		

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 -

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

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

4 ↑ Denotes improvement in quality (↓ Inverse)
↑↑ Denotes significant improvement in quality (↓↓ Inverse)
✓ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place

+Denotes values are near or within permissible limits.