Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 13.07.2021

Permissible Limits: PM$_{10}$ = 100; PM$_{2.5}$ = 60, all units are in μg/m^3

Sampling Site and Height	Duration of Sampling	DAYALBAGH (Time Weighted Average)				SANJAY PLACE @ 40 feet (Arithmetic Mean)				AIR QUALITY INDEX (AQI) ON THE BASIS OF PM$_{2.5}$ CONCENTRATION			
		PM$_{10}$ [μg/m^3]		PM$_{2.5}$ [μg/m^3]		PM$_{10}$ [μg/m^3] Calculated on the basis of PM$_{10}$/PM$_{2.5}$ ratio at Dayalbagh		PM$_{2.5}$ [μg/m^3] @ 40 feet		DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet	
		Today 13.7.2021-12.7.2021	Yesterday 12.7.2021-11.7.2021	Today 13.7.2021-12.7.2021	Yesterday 12.7.2021-11.7.2021	Today 13.7.2021-12.7.2021	Yesterday 12.7.2021-11.7.2021	Today 13.7.2021-12.7.2021	Yesterday 12.7.2021-11.7.2021	Today 13.7.2021-12.7.2021	Yesterday 12.7.2021-11.7.2021	Today 13.7.2021-12.7.2021	Yesterday 12.7.2021-11.7.2021
4/97 @ 40 feet	12:00-12:00 noon	✓+48↑	74	+47↑	63	+35↑	41	+32	34	129 MODERATE	155 MODERATE	93 SATISFACTORY	97 SATISFACTORY
3/34 @ 40 feet	12:00-12:00 noon	✓+44↑	59	✓+38↑	47					107 MODERATE	129 MODERATE		
Science Faculty @ 40 feet	12:00-12:00 noon	✓+46↑	62	✓+40↑	49					112 MODERATE	134 MODERATE		

Relative Humidity at Dayalbagh – 74%; Relative Humidity at Sanjay Place- 68%

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 **(PM$_{2.5}$)**, C$_{low}$=Concentration Breakpoint ≤C, C$_{high}$=Concentration Breakpoint ≥C, I$_{low}$=Index Break point corresponding to C$_{low}$, I$_{high}$=Index Breakpoint corresponding to C$_{high}$

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.