Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated:15.07.2021

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

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/m³]		PM$_{2.5}$ [µg/m³]		Meteorological Parameters @ Dayalbagh			PM$_{10}$ [µg/m³] Calculated on the basis of PM$_{10}$/PM$_{2.5}$ ratio at Dayalbagh		PM$_{2.5}$ [µg/m³] @ 40 feet		Meteorological Parameters @ Sanjay Place			DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet
		Today 15.7.21-14.7.21	Yesterday 14.7.21-13.7.21	Today 15.7.21-14.7.21	Yesterday 14.7.21-13.7.21	RH %	WS m/s	WD	Today 15.7.21-14.7.21	Yesterday 14.7.21-13.7.21	Today 15.7.21-14.7.21	Yesterday 14.7.21-13.7.21	RH %	WS m/s	WD	Today 15.7.21-14.7.21	Yesterday 14.7.21-13.7.21	Today 15.7.21-14.7.21	Yesterday 14.7.21-13.7.21
4/97 @ 40 feet	12:00-12:00 noon	✓+34	30	✓+33	30	68	3.8	ESE								95 Satisfactory	89 Satisfactory		
3/34 @ 40 feet	12:00-12:00 noon	✓+28	26	✓+25	23	67	3.8	ESE	+30	32	+27	29	61	3.3	SSE	78 Satisfactory	74 Satisfactory	82 Satisfactory	87 Satisfactory
Science Faculty @ 40 feet	12:00-12:00 noon	✓+31	29	✓+27	25	69	3.8	ESE								82 Satisfactory	78 Satisfactory		

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.