

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 4.06.2021

Permissible Limits: PM₁₀ = 100; PM_{2.5} = 60, all units are in µg/m³

Sampling Site and Height	Duration of Sampling	DAYALBAGH				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		SANJAY PLACE @ 40 feet	
		Today 4.6.2021- 3.6.2021	Yesterday 3.6.2021- 2.6.2021	Today 4.6.2021- 3.6.2021	Yesterday 3.6.2021- 2.6.2021	Today 4.6.2021- 3.6.2021	Yesterday 3.6.2021- 2.6.2021	Today 4.6.2021- 3.6.2021	Yesterday 3.6.2021- 2.6.2021	Today 4.6.2021-3.6.2021	Yesterday 3.6.2021-2.6.2021	Today 4.6.2021-3.6.2021	Yesterday 3.6.2021-2.6.2021
4/97 @ 40 feet	12:00-12:00 noon	✓+52↓	40	✓+24	20					76 SATISFACTORY	68 SATISFACTORY	119 MODERATE	105 MODERATE
3/34 @ 40 feet	12:00-12:00 noon	✓+27	23	✓+15	11	+81↓	74	+43↓	37	57 SATISFACTORY	46 GOOD		
Science Faculty @ 40 feet	12:00-12:00 noon	✓+34↓	25	✓+18↓	10					63 SATISFACTORY	42 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_{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