

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 18.06.2021

Permissible Limits: PM₁₀ = 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/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 18.6.2021- 17.6.2021	Yesterday 17.6.2021- 16.6.2021	Today 18.6.2021- 17.6.2021	Yesterday 17.6.2021- 16.6.2021	Today 18.6.2021- 17.6.2021	Yesterday 17.6.2021- 16.6.2021	Today 18.6.2021- 17.6.2021	Yesterday 17.6.2021- 16.6.2021	Today 18.6.2021- 17.6.2021	Yesterday 17.6.2021- 16.6.2021	Today 18.6.2021- 17.6.2021	Yesterday 17.6.2021-16.6.2021
4/97 @ 40 feet	12:00- 12:00 noon	✓+38↑	66	✓+31↑	34					91 SATISFACTORY	97 SATISFACTORY		
3/34 @ 40 feet	12:00- 12:00 noon	✓+26↑	38	✓+20↑	26	+40↑↑	80	+31↑	50	68 SATISFACTORY	80 SATISFACTORY	91 SATISFACTORY	137 MODERATE
Science Faculty @ 40 feet	12:00- 12:00 noon	✓+29↑	44	✓+22↑	27					72 SATISFACTORY	82 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