

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated:18.07.2021

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]		Meteorological Parameters			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		Meteorological Parameters			DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet		
		Today 18.7.21- 17.7.21	Yesterday 17.7.21- 16.7.21	Today 18.7.21- 17.7.21	Yesterday 17.7.21- 16.7.21	RH %	WS m/s	WD	Today 18.7.21- 17.7.21	Yesterday 17.7.21- 16.7.21	Today 18.7.21- 17.7.21	Yesterday 17.7.21- 16.7.21	RH %	WS m/s	WD	Today 18.7.21- 17.7.21	Yesterday 17.7.21- 16.7.21	Today 18.7.21- 17.7.21	Yesterday 17.7.21- 16.7.21	
4/97 @ 40 feet	12:00- 12:00 noon	✓+23↑↑	39	✓+19↑ ↑	37	68	3.7	SW									66 Satisfactory	105 Moderate		
3/34 @ 40 feet	12:00- 12:00 noon	✓+22↑↑	37	✓+19↑ ↑	33	68	3.7	SW	+25↑ ↑	42	+21↑↑	38	65	3.8	S		66 Satisfactory	95 Satisfactory	70 Satisfactory	107 Moderate
Science Faculty @ 40 feet	12:00- 12:00 noon	✓+22↑↑	40	✓+19↑ ↑	35	69	3.8	SW									66 Satisfactory	99 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.