

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 16.06.2021

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 16.6.2021- 15.6.2021 | Yesterday 15.6.2021- 14.6.2021 | Today 16.6.2021- 15.6.2021 | Yesterday 15.6.2021- 14.6.2021 | Today 16.6.2021- 15.6.2021 | Yesterday 15.6.2021- 14.6.2021 | Today 16.6.2021- 15.6.2021 | Yesterday 15.6.2021- 14.6.2021 | Today 16.6.2021- 15.6.2021 | Yesterday 15.6.2021- 14.6.2021 | Today 16.6.2021- 15.6.2021 | Yesterday 15.6.2021- 14.6.2021 |
| 4/97 @ 40 feet | 12:00-12:00 noon | ✓+42↓↓ | 22 | ✓+29↓ | 19 | | | | | 87 SATISFACTORY | 66 SATISFACTORY | | |
| 3/34 @ 40 feet | 12:00-12:00 noon | ✓+28↓↓ | 14 | ✓+21↓↓ | 10 | +34↓ | 24 | +28↓ | 20 | 70 SATISFACTORY | 42 GOOD | 84 SATISFACTORY | 68 SATISFACTORY |
| Science Faculty @ 40 feet | 12:00-12:00 noon | ✓+31↓↓ | 16 | ✓+23↓ | 12 | | | | | 74 SATISFACTORY | 50 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