Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 6.06.2021

Permissible Limits: $PM_{10} = 100$; $PM_{2.5} = 60$, all units are in $\mu g/m^3$

| | | | | | | | | | | | | | 10 |
|------------------------------------|-------------------------|---------------------------------------|------------------------------------|--|------------------------------------|--|------------------------------------|---|------------------------------------|---|--------------------------------|----------------------------|--------------------------------|
| Sampling Site and Height | Duration of Sampling | DAYALBAGH | | | | SANJAY PLACE @ 40 feet (Arithmetic Mean) | | | | AIR QUALITY INDEX (AQI) ON THE BASIS OF PM2.5 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 6.6.2021- 5.6.2021 | Yesterday 5.6.2021- 4.6.2021 | Today 6.6.2021- 5.6.2021 | Yesterday 5.6.2021- 4.6.2021 | Today 6.6.2021- 5.6.2021 | Yesterday 5.6.2021- 4.6.2021 | Today 6.6.2021- 5.6.2021 | Yesterday 5.6.2021- 4.6.2021 | Today 6.6.2021-5.6.2021 | Yesterday 5.6.2021-4.6.2021 | Today 6.6.2021-5.6.2021 | Yesterday 5.6.2021-4.6.2021 |
| 4/97 @ 40 feet | 12:00-12:00 noon | √+45 ↑ | 57 | √ +22 | 25 | - +70↑ | 108 | +38↑ | 57 | 72 Satisfactory | 78 Satisfactory | 107 MODERATE | 152 MODERATE |
| 3/34 @ 40 feet | 12:00-12:00 noon | √+26 ↑ | 31 | √ +14 | 17 | | | | | 55 Satisfactory | 61 Satisfactory | | |
| Science Faculty @ 40 feet | 12:00-12:00 noon | √+31 ↑ | 38 | √ +16 | 18 | | | | | 59 Satisfactory | 63 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 $\leq C$, C_{high}=Concentration Breakpoint $\geq C$, I_{low} =Index Break point corresponding to C_{low}, I_{high}=Index Breakpoint corresponding to C_{high}

4 \uparrow Denotes improvement in quality (\downarrow Inverse)

 $\uparrow\uparrow$ Denotes significant improvement in quality ($\downarrow\downarrow$ Inverse)

✓ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place

+Denotes values are near or within permissible limits

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