# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING REPORT – Dated: 26.04.2021

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

| 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 26.04.2021 | Yesterday 25.04.2021 | Today 26.04.2021 | Yesterday 25.04.2021 | Today 26.04.2021 | Yesterday 25.04.2021 | Today 26.04.2021 | Yesterday 25.04.2021 | Today 26.04.2021 | Yesterday 25.04.2021 | Today 26.04.2021 | Yesterday 25.04.2021 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/95 @ 20 feet | 7:15 – 8:15 AM | ✓242↓ | 234 | ✓124↓ | 113 | 236 | 236 | 121↓ | 114 | 186 MODERATE | 181 MODERATE | 185 MODERATE | 181 MODERATE |
| Ladder at PN (Ghodi) @ 12 feet | 8:30 – 9:30AM | ✓194 | 194 | ✓96↓ | 79 | 234 | 235 | 116↓ | 96 | 172 MODERATE | 163 MODERATE | 182 MODERATE | 172 MODERATE |
| Science Faculty @ 20 feet | 10:00 – 11:00AM | ✓134↓ | 105 | ✓+55↓ | 32 | 197↓ | 138 | 81↓↓ | 42 | 149 MODERATE | 93 SATISFACTORY | 164 MODERATE | 117 MODERATE |
| Dairy @ 6 feet | 12:00 – 1:00 PM | ✓+87↑ | 97 | ✓+27 | 27 | 155↓ | 133 | +48↓ | 37 | 82 SATISFACTORY | 82 SATISFACTORY | 132 MODERATE | 105 MODERATE |
| Control Room @ 6 feet | 1:15 – 2:15 PM | ✓+80↑ | 86 | ✓+26 | 25 | +111↑ | 134 | +36↑ | 39 | 80 SATISFACTORY | 78 SATISFACTORY | 102 MODERATE | 110 MODERATE |

*Sampling was performed on 26.04.2021.*

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 PM2.5 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 (**PM2.5**), 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

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**AIR QUALITY MONITORING REPORT – Dated: 26.04.2021**

Location      :      Yamuna Pump
Time          :      3: 30 – 4:30 PM
Wind Speed :      3.8 km/h

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

| Data Type | $PM_{10}$ [$\mu g/m^3$] | $PM_{2.5}$ [$\mu g/m^3$] | AIR QUALITY INDEX (AQI) ON THE BASIS OF $PM_{2.5}$ CONCENTRATION |
|---|---|---|---|
| **Field Data (TWA) @6feet** | 157 | ✓+42 | **117 – MODERATE** |
| **Sanjay Place @ 40feet** | 123 | +33 | **95 – SATISFACTORY** |

*Sampling was performed on 25.04.2021.*

NOTE: 1 A continuous study conducted as part of **Dayalbagh Sigma Six Qualities and Values Model** implementation.

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