

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 30.04.2021

Permissible Limits: PM₁₀ = 100; PM_{2.5} = 60, all units are in µg/m³

| Sampling Site and Height | Duration of Sampling | DAYALBAGH | | | | 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 | | SANJAY PLACE @ 40 feet | |
| | | Today 30.04.2021 | Yesterday 29.04.2021 | Today 30.04.2021 | Yesterday 29.04.2021 | Today 30.04.2021 | Yesterday 29.04.2021 | Today 30.04.2021 | Yesterday 29.04.2021 | Today 30.04.2021 | Yesterday 29.04.2021 | Today 30.04.2021 | Yesterday 29.04.2021 |
| 4/95 @ 20 feet | 7:15 – 8:15 AM | ✓253↑ | 262 | ✓95 | 95 | 253↑ | 306 | 95↑ | 111 | 171 MODERATE | 171 MODERATE | 171 MODERATE | 180 MODERATE |
| Ladder at PN (Ghodi) @ 12 feet | 8:30 – 9: 30AM | ✓246↓ | 200 | ✓104↑ | 120 | 295↓ | 257 | 125↑ | 154 | 176 MODERATE | 184 MODERATE | 187 MODERATE | 204 POOR |
| Science Faculty @ 20 feet | 10:00 – 11:00AM | ✓220↑ | 228 | ✓81↑ | 102 | 266↑ | 277 | 98↑ | 124 | 164 MODERATE | 175 MODERATE | 173 MODERATE | 186 MODERATE |
| Dairy @ 6 feet | 12:00 – 1:00 PM | ✓182↑ | 191 | ✓+62↑ | 71 | 275 | 272 | 94↑ | 101 | 154 MODERATE | 159 MODERATE | 171 MODERATE | 174 MODERATE |
| Control Room @ 6 feet | 1:15 – 2:15 PM | ✓182↓ | 139 | ✓+60↓ | 41 | 276 | 278 | 91↓ | 82 | 153 MODERATE | 115 MODERATE | 169 MODERATE | 165 MODERATE |

Sampling was performed on 30.04.2021.

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 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

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AIR QUALITY MONITORING REPORT – Dated: 30.04.2021

Location : Sikandarpur
 Time : 4: 00 – 5:00 PM
 Wind Speed : 4.1 km/h

Permissible Limits: PM₁₀ = 100; PM_{2.5} = 60, all units are in µg/m³

| Data Type | PM ₁₀ [µg/m ³] | PM _{2.5} [µg/m ³] | AIR QUALITY INDEX (AQI) ON THE BASIS OF PM _{2.5} CONCENTRATION |
|----------------------------|---------------------------------------|--|---|
| Field Data (TWA) @6feet | ✓161 | ✓+ 43 | 119 – MODERATE |
| Sanjay Place @ 40feet | 453 | 121 | 185 – MODERATE |

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