

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Sampling Results of 2.04.2021 and 1.04.2021

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 2.04.2021	Yesterday 1.04.2021	Today 2.04.2021	Yesterday 1.04.2021	Today 2.04.2021	Yesterday 1.04.2021	Today 2.04.2021	Yesterday 1.04.2021	Today 2.04.2021	Yesterday 1.04.2021	Today 2.04.2021	Yesterday 1.04.2021
4/97 @ 20 feet	7:30 - 8:30AM	✓261↓	228	✓79↓	59	353↓	267	107↓	69	163 MODERATE	153 MODERATE	178 MODERATE	158 MODERATE
3/34 @ 40 feet	8:45 – 9: 45AM	✓210↑	217	✓+55	53	347	NA	91	NA	149 MODERATE	144 MODERATE	169 MODERATE	NA
Science Faculty @ 20 feet	10:00 - 11:00AM	✓177↑	205	✓+37↑	55	320↓	291	+67↑	78	105 MODERATE	149 MODERATE	157 MODERATE	162 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓+98↑↑	158	✓+22↑	37	218↑	243	+49↑	57	72 SATISFACTORY	105 MODERATE	134 MODERATE	152 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓+77↑↑	149	✓+16↑↑	30	260↑	267	+54↓	43	59 SATISFACTORY	89 SATISFACTORY	147 MODERATE	119 MODERATE

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 – Sampling Results of 1.04.2021

Location : Kuan No.4
 Time : 4: 30 – 5:30 PM
 Wind Speed : 7.3 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	✓174	✓+ 36	102 – MODERATE
Sanjay Place @ 40feet	213	+ 44	122 – MODERATE

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