

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 22.05.2021

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 22.05.2021	Yesterday 21.05.2021	Today 22.05.2021	Yesterday 21.05.2021	Today 22.05.2021	Yesterday 21.05.2021	Today 22.05.2021	Yesterday 21.05.2021	Today 22.05.2021	Yesterday 21.05.2021	Today 22.05.2021	Yesterday 21.05.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓+36↑↑	111	✓+28↑↑	85	+31↑↑	85	+24↑↑	65	84 SATISFACTORY	166 MODERATE	76 SATISFACTORY	156 MODERATE
3/34 @ 40 feet	8:30 – 9: 30AM	✓+44↑↑	114	✓+32↑↑	90	+45↑↑	75	+33↑↑	59	93 SATISFACTORY	169 MODERATE	95 SATISFACTORY	153 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+49	48	✓+35↑	24	+35↓	28	+25↓	14	99 SATISFACTORY	76 SATISFACTORY	78 SATISFACTORY	55 SATISFACTORY
Dairy @ 6 feet	12:00 – 1:00 PM	✓+35↓	14	✓+23↓	9	+32	30	+21	19	74 SATISFACTORY	38 GOOD	70 SATISFACTORY	66 SATISFACTORY
Control Room @ 6 feet	1:15 – 2:15 PM	✓+24↑	49	✓+14↑	27	+31	31	+18	17	55 SATISFACTORY	82 SATISFACTORY	63 SATISFACTORY	61 SATISFACTORY

Sampling was performed on 22.05.2021.

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: 22.05.2021

Location : Boys Hostel (Khasra No. 359)
 Time : 3:45 – 4:45 PM
 Wind Speed : 3.9 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	+ 73	✓+ 24	76 – SATISFACTORY
Sanjay Place @ 40feet	+ 55	+ 18	63 – SATISFACTORY

Sampling was performed on 21.05.2021.

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