

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 15.04.2021

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 15.04.2021	Yesterday 14.04.2021	Today 15.04.2021	Yesterday 14.04.2021	Today 15.04.2021	Yesterday 14.04.2021	Today 15.04.2021	Yesterday 14.04.2021	Today 15.04.2021	Yesterday 14.04.2021	Today 15.04.2021	Yesterday 14.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓186↑	213	✓+53↑↑	128	246↓	233	+70↑↑	140	144 MODERATE	188 MODERATE	158 MODERATE	195 MODERATE
3/34 @ 40 feet	8:30 – 9: 30AM	✓175↑	217	✓+52↑↑	97	209↑↑	324	+62↑↑	145	142 MODERATE	172 MODERATE	154 MODERATE	197 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓208↓	144	✓+56↓	48	330↓↓	222	89↓	74	151 MODERATE	132 MODERATE	168 MODERATE	161 MODERATE
Dairy @ 6 feet	11:45 – 12:45 PM	✓198↓	140	✓+60↓	38	290↓↓	206	88↓	56	153 MODERATE	107 MODERATE	168 MODERATE	151 MODERATE
Control Room @ 6 feet	1:00 – 2:00 PM	✓175↓	120	✓+48↓	37	288↓↓	208	79↓	64	132 MODERATE	105 MODERATE	163 MODERATE	155 MODERATE

Sampling was performed on 15.04.2021.

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: 15.04.2021

Location : Near Pipeline
 Time : 4: 30 – 5:30 PM
 Wind Speed : 2.5 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	898	✓ + 53	144 – MODERATE
Sanjay Place @ 40feet	165	+ 54	147 – MODERATE

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