

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 13.04.2021

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 13.04.2021	Yesterday 12.04.2021	Today 13.04.2021	Yesterday 12.04.2021	Today 13.04.2021	Yesterday 12.04.2021	Today 13.04.2021	Yesterday 12.04.2021	Today 13.04.2021	Yesterday 12.04.2021	Today 13.04.2021	Yesterday 12.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓472↓↓	203	✓175↓↓	76	510↓↓	288	189↓↓	108	225 POOR	162 MODERATE	239 POOR	178 MODERATE
3/34 @ 40 feet	8:30 – 9: 30AM	✓440↓↓	227	✓140↓↓	82	688↓↓	277	219↓↓	100	195 MODERATE	165 MODERATE	269 POOR	174 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓199 ↑	207	✓71 ↑	97	266↓	254	95↑	119	159 MODERATE	172 MODERATE	171 MODERATE	184 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓151 ↑	165	✓+40	41	257↓	241	68↓	60	112 MODERATE	115 MODERATE	157 MODERATE	153 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓139↓	103	✓+37↓	27	233↓	191	62↓	50	105 MODERATE	82 SATISFACTORY	154 MODERATE	137 MODERATE

Sampling was performed on 13.04.2021.

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: 13.04.2021

Location : Dairy
 Time : 4: 00 – 5:00 PM
 Wind Speed : 2. 4 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	1602	+ 69	158 – MODERATE
Sanjay Place @ 40feet	165	+41	115 – MODERATE

Sampling was performed on 12.04.2021. PM₁₀ values remained > 350 µg/m³ for 51 minutes.

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