

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 6.04.2021

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 6.04.2021	Yesterday 5.04.2021	Today 6.04.2021	Yesterday 5.04.2021	Today 6.04.2021	Yesterday 5.04.2021	Today 6.04.2021	Yesterday 5.04.2021	Today 6.04.2021	Yesterday 5.04.2021	Today 6.04.2021	Yesterday 5.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓195↑↑	396	✓111↓	95↑	221↑↑	519	126↑	181	180 MODERATE	171 MODERATE	187 MODERATE	231 POOR
3/34 @ 40 feet	8:30 – 9: 30AM	✓363↓↓	176	✓91↑	98	274↑	332	156↑	185	169 MODERATE	173 MODERATE	206 POOR	235 POOR
Science Faculty @ 20 feet	10:00 – 11:00AM	✓178↑	210	✓92↓	62	273↑	335	141↓	99	170 MODERATE	154 MODERATE	195 MODERATE	173 MODERATE
Dairy @ 6 feet	11:45 – 12:45 PM	✓176↓	138	✓+65↓↓	30	314	317	116↓↓	69	156 MODERATE	89 SATISFACTORY	182 MODERATE	158 MODERATE
Control Room @ 6 feet	1:00 – 2:00 PM	✓164↓	112	✓+45↓↓	25	338↓↓	233	93↓↓	52	124 MODERATE	78 SATISFACTORY	170 MODERATE	142 MODERATE

Sampling was performed on 6.04.2021

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: 6.04.2021

Location : North of Canal
 Time : 4: 00 – 5:00 PM
 Wind Speed : 7.1 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	✓171	✓+ 33	95 – SATISFACTORY
Sanjay Place @ 40feet	228	+ 44	122 – MODERATE

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