Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 12.04.2021

Permissible Limits: PM_{10} = 100; $PM_{2.5}$ = 60, all units are in µg/m^3

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 12.04.2021	Yesterday 11.04.2021	Today 12.04.2021	Yesterday 11.04.2021	Today 12.04.2021	Yesterday 11.04.2021	Today 12.04.2021	Yesterday 11.04.2021	Today 12.04.2021	Yesterday 11.04.2021	Today 12.04.2021	Yesterday 11.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓203↑	251	✓76↑	82	288↑↑	471	108↑	189	162 MODERATE	165 MODERATE	178 MODERATE	239 POOR
3/34 @ 40 feet	8:30 – 9: 30AM	✓227↓	168	✓82↓	71	277↑↑	437	100↑	185	165 MODERATE	159 MODERATE	174 MODERATE	235 POOR
Science Faculty @ 20 feet	10:00 – 11:00AM	✓207↑	229	✓97↓	90	254↑	275	119↓	108	172 MODERATE	169 MODERATE	184 MODERATE	178 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓165↓	123	✓+41↓	28	241	241	+60↓	55	115 MODERATE	84 SATISFACTORY	153 MODERATE	149 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓103↓	97	✓+27↓	23	191↓	160	+50↓	38	82 SATISFACTORY	74 SATISFACTORY	137 MODERATE	107 MODERATE

Sampling was performed on 12.04.2021.

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

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 12.04.2021

Location : Radhabagh
Time : 4: 00 – 5:00 PM
Wind Speed : 2. 8 km/h

Permissible Limits: PM_{10} = 100; $PM_{2.5}$ = 60, all units are in µg/m^3

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	**1136**	**+ 49**	**134 – MODERATE**
Sanjay Place @ 40feet	**109**	**+26**	**80 – SATISFACTORY**

Sampling was performed on 11.04.2021. PM_{10} values remained > 350 µg/m^3 for *40 minutes.*

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