Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 14.04.2021

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 14.04.2021	Yesterday 13.04.2021	Today 14.04.2021	Yesterday 13.04.2021	Today 14.04.2021	Yesterday 13.04.2021	Today 14.04.2021	Yesterday 13.04.2021	Today 14.04.2021	Yesterday 13.04.2021	Today 14.04.2021	Yesterday 13.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓213↑↑	472	✓128↑	175	233↑↑	510	140↑	189	188 MODERATE	225 POOR	195 MODERATE	239 POOR
3/34 @ 40 feet	8:30 – 9: 30AM	✓217↑↑	440	✓97↑	140	324↑↑	688	145↑↑	219	172 MODERATE	195 MODERATE	197 MODERATE	269 POOR
Science Faculty @ 20 feet	10:00 – 11:00AM	✓144↑	199	✓+48↑	71	222↑	266	74↑	95	132 MODERATE	159 MODERATE	161 MODERATE	171 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓140↑	151	✓+38	40	206↑	257	+56↑	68	107 MODERATE	112 MODERATE	151 MODERATE	157 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓120↑	139	✓+37	37	208↑	233	+64	62	105 MODERATE	105 MODERATE	155 MODERATE	154 MODERATE

Sampling was performed on 14.04.2021.

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: 14.04.2021

Location : Sikandarpur
Time : 4: 00 – 5:00 PM
Wind Speed : 1. 8 km/h

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

Data Type	PM_{10} [$\mu g/m^3$]	$PM_{2.5}$ [$\mu g/m^3$]	AIR QUALITY INDEX (AQI) ON THE BASIS OF $PM_{2.5}$ CONCENTRATION
Field Data (TWA) @6feet	**342**	**✓ + 52**	**142 – MODERATE**
Sanjay Place @ 40feet	**165**	**+ 55**	**149 – 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.
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✔ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place
+Denotes values are near or within permissible limits