Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 16.04.2021

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 16.04.2021	Yesterday 15.04.2021	Today 16.04.2021	Yesterday 15.04.2021	Today 16.04.2021	Yesterday 15.04.2021	Today 16.04.2021	Yesterday 15.04.2021	Today 16.04.2021	Yesterday 15.04.2021	Today 16.04.2021	Yesterday 15.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓247↓	186	✓85↓	53	278↓	246	96↓	70	166 MODERATE	144 MODERATE	172 MODERATE	158 MODERATE
3/34 @ 40 feet	8:30 – 9: 30AM	✓226↓	175	✓81↓	52	315↓↓	209	113↓↓	62	164 MODERATE	142 MODERATE	181 MODERATE	154 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓203↑	208	✓+52↑	56	265↑	330	+68↑	89	142 MODERATE	151 MODERATE	157 MODERATE	168 MODERATE
Dairy @ 6 feet	11:45 – 12:45 PM	✓130↑	198	✓+38↑	60	185↑↑	290	+54↑	88	107 MODERATE	153 MODERATE	147 MODERATE	168 MODERATE
Control Room @ 6 feet	1:00 – 2:00 PM	✓129 ↑		✓+40↑	48	158↑↑	288	+49↑	79	112 MODERATE	132 MODERATE	134 MODERATE	163 MODERATE

Sampling was performed on 16.04.2021.

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: 16.04.2021

Location : Punjabi Farm
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 $\mu g/m^3$

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	**✓218**	**✓ + 54**	**147 – MODERATE**
Sanjay Place @ 40feet	**274**	**+ 68**	**157 – MODERATE**

Sampling was performed on 15.04.2021.

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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 values are near or within permissible limits