Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 24.05.2021

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 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021
4/95 @ 20 feet	7:15 –8:15 AM	✓+95↑↑	425	✓+36↑↑	56	140↑↑	458	+53↑↑	229	102 MODERATE	151 MODERATE	144 MODERATE	279 POOR
3/34 @ 40 feet	8:30 – 9: 30AM	✓+90↑↑	804	✓+32↑↑	60	135↑↑	1164	+48↑↑	582	93 SATISFACTORY	153 MODERATE	132 MODERATE	–
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+89↑↑	1007	✓+26↑↑	75	171↑↑	1654	+50↑↑	827	80 SATISFACTORY	161 MODERATE	137 MODERATE	–
Dairy @ 6 feet	12:00 – 1:00 PM	✓113↑↑	870	✓+20↑↑	67	137↑↑	1418	+52↑↑	709	68 SATISFACTORY	157 MODERATE	142 MODERATE	–
Control Room @ 6 feet	1:15 – 2:15 PM	✓+68↑↑	778	✓+13↑↑	60	133↑↑	1280	+51↑↑	640	53 SATISFACTORY	153 MODERATE	139 MODERATE	–

Sampling was performed on 24.05.2021.

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: 24.05.2021

Location : Punjabi Farm
Time : 3:345 – 4:45 PM
Wind Speed : 4. 5 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	**✓ 470**	**✓+ 44**	**122 – MODERATE**
Sanjay Place @ 40feet	**964**	**482**	**488 – SEVERE**

Sampling was performed on 23.05.2021.

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