Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 23.05.2021

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 23.05.2021	Yesterday 22.05.2021	Today 23.05.2021	Yesterday 22.05.2021	Today 23.05.2021	Yesterday 22.05.2021	Today 23.05.2021	Yesterday 22.05.2021	Today 23.05.2021	Yesterday 22.05.2021	Today 23.05.2021	Yesterday 22.05.2021
4/95 @ 20 feet	7:15 –8:15 AM	✓425↓↓	36	✓+56↓↓	28	458↓↓	31	229↓↓	24	151 MODERATE	84 SATISFACTORY	279 POOR	76 SATISFACTORY
3/34 @ 40 feet	8:30 – 9: 30AM	✓804↓↓	44	✓+60↓↓	32	1164↓↓	45	582↓↓	33	153 MODERATE	93 SATISFACTORY	–	95 SATISFACTORY
Science Faculty @ 20 feet	10:00 – 11:00AM	✓1007↓↓	49	✓+75↓↓	35	1654↓↓	35	827↓↓	25	161 MODERATE	99 SATISFACTORY	–	78 SATISFACTORY
Dairy @ 6 feet	12:00 – 1:00 PM	✓870↓↓	35	✓+67↓↓	23	1418↓↓	32	709↓↓	21	157 MODERATE	74 SATISFACTORY	–	70 SATISFACTORY
Control Room @ 6 feet	1:15 – 2:15 PM	✓778↓↓	24	✓+60↓↓	14	1280↓↓	31	640↓↓	18	153 MODERATE	55 SATISFACTORY	–	63 SATISFACTORY

Sampling was performed on 23.05.2021.

– *$PM_{2.5}$ value Beyond AQI*

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: 23.05.2021

Location : Punjabi Farm
Time : 4:30 – 5:30 PM
Wind Speed : 5. 9 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	**+ 40**	**✓+ 21**	**70 – SATISFACTORY**
Sanjay Place @ 40feet	**+ 55**	**+ 26**	**80 – SATISFACTORY**

Sampling was performed on 22.05.2021.

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✔ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place
+Denotes values are near or within permissible limits