Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Sampling Results of 1.04.2021 and 31.03.2021

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 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021
4/97 @ 20 feet	7:30 - 8:30AM	✓228↓	202	✓+59↑	91	267↓	260	+69↑↑	117	153 MODERATE	169 MODERATE	158 MODERATE	183 MODERATE
3/34 @ 40 feet	8:45 – 9: 45AM	217↓	205	+53↑	61	NA	315	NA	94	144 MODERATE	154 MODERATE	NA	171 MODERATE
Science Faculty @ 20 feet	10:00 - 11:00AM	✓205↓	180	✓+55↑	58	291↓	168	78↓	54	149 MODERATE	152 MODERATE	162 MODERATE	147 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓158↓	147	✓+37	35	243	NA	+57	NA	105 MODERATE	99 SATISFACTORY	152 MODERATE	NA
Control Room @ 6 feet	1:30 – 2:30 PM	✓149↓	118	✓+30↓	24	267↓	216	+43	+44	89 SATISFACTORY	76 SATISFACTORY	119 MODERATE	122 MODERATE

Data for Sanjay Place was not available between 9:00 – 10:00 am

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 – Sampling Results of 31.03.2021

Location : Gainda ka Teela
Time : 4: 00 – 5:00 PM
Wind Speed : 7.4 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	**✓165**	**✓+ 34**	**97 – SATISFACTORY**
Sanjay Place @ 40feet	**237**	**+49**	**134 – MODERATE**

01/04/2021

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