Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 3.04.2021

Permissible Limits: PM_{10} = 100; $PM_{2.5}$ = 60, all units are in μg/m³

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/m³]		$PM_{2.5}$ [μg/m³]		PM_{10} [μg/m³] Calculated on the basis of $PM_{10}/PM_{2.5}$ ratio at Dayalbagh		$PM_{2.5}$ [μg/m³] @ 40 feet		DAYALBAGH		SANJAY PLACE @ 40 feet	
		Today 3.04.2021	Yesterday 2.04.2021	Today 3.04.2021	Yesterday 2.04.2021	Today 3.04.2021	Yesterday 2.04.2021	Today 3.04.2021	Yesterday 2.04.2021	Today 3.04.2021	Yesterday 2.04.2021	Today 3.04.2021	Yesterday 2.04.2021
4/97 @ 20 feet	7:15 – 8:15AM	✓206↑	261	✓103↓	79	196↑↑	353	98↑	107	176 MODERATE	163 MODERATE	173 MODERATE	178 MODERATE
3/34 @ 40 feet	8:30 – 9:30AM	✓183↑	210	✓+66↓	55	236↑↑	347	85↑	91	156 MODERATE	149 MODERATE	166 MODERATE	169 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+95↑↑	177	✓+24↑	37	166↑↑	320	+ 42↑	67	76 SATISFACTORY	105 MODERATE	117 MODERATE	157 MODERATE
Dairy @ 6 feet	12:30 – 1:30 PM	✓+88↑	98	✓+18↑	22	137↑↑	218	+28↑↑	49	63 SATISFACTORY	72 SATISFACTORY	84 SATISFACTORY	134 MODERATE
Control Room @ 6 feet	1:45 – 2:45 PM	✓+68↑	77	✓+15	16	+95↑↑	260	+21↑↑	54	57 SATISFACTORY	59 SATISFACTORY	70 SATISFACTORY	147 MODERATE

Sampling was performed on 3.04.2021

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 **(PM2.5)**, 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: 3.04.2021

Location   :   Kriplani Field
Time   :   4: 45 – 5:45 PM
Wind Speed :   4.4 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	260	✓+ 37	105 – MODERATE
Sanjay Place @ 40feet	246	+ 35	99 – SATISFACTORY

Sampling was performed on 2.04.2021

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