Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 8.04.2021

Permissible Limits: $PM_{10} = 100$; $PM_{2.5} = 60$, all units are in $\mu g/m^3$

Sampling Site and Height	Duration of Sampling	DAYALBAGH				SANJAY PLACE @ 40 feet (Arithmetic Mean)				AIR QUALITY INDEX (AQI) ON THE BASIS OF PM2.5 CONCENTRATION			
		PM_{10} [$\mu g/m^3$]		$PM_{2.5}$ [$\mu g/m^3$]		PM_{10} [$\mu g/m^3$] Calculated on the basis of $PM_{10}/PM_{2.5}$ ratio at Dayalbagh		$PM_{2.5}$ [$\mu g/m^3$] @ 40 feet		DAYALBAGH		SANJAY PLACE @ 40 feet	
		Today 8.04.2021	Yesterday 7.04.2021	Today 8.04.2021	Yesterday 7.04.2021	Today 8.04.2021	Yesterday 7.04.2021	Today 8.04.2021	Yesterday 7.04.2021	Today 8.04.2021	Yesterday 7.04.2021	Today 8.04.2021	Yesterday 7.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	186↑↑	462	114↓	105	NA	NA	NA	NA	181 MODERATE	177 MODERATE	NA	NA
3/34 @ 40 feet	8:30 – 9:30AM	260↑↑	407	104↑	116	NA	NA	NA	NA	176 MODERATE	182 MODERATE	NA	NA
Science Faculty @ 20 feet	10:00 – 11:00AM	214↑↑	476	72↑	113	NA	NA	NA	NA	160 MODERATE	181 MODERATE	NA	NA
Dairy @ 6 feet	12:00 – 1:00 PM	204↑↑	453	+47↑↑	98	NA	NA	NA	NA	129 MODERATE	173 MODERATE	NA	NA
Control Room @ 6 feet	1:15 – 2:15 PM	167↑	198	+43↑↑	84	NA	NA	NA	NA	119 MODERATE	166 MODERATE	NA	NA

Sampling was performed on 8.04.2021. Data for Sanjay Place is not available today also.

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 PM2.5 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: 8.04.2021

Location   :   Kuan No.4
Time   :   4: 15 – 5:15 PM
Wind Speed :   4.8 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	✓271	✓+ 69	158 – MODERATE
Sanjay Place @ 40feet	NA	NA	NA

Sampling was performed on 7.04.2021. Data for Sanjay Place is not available.

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