Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 21.05.2021

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 21.05.2021	Yesterday 20.05.2021	Today 21.05.2021	Yesterday 20.05.2021	Today 21.05.2021	Yesterday 20.05.2021	Today 21.05.2021	Yesterday 20.05.2021	Today 21.05.2021	Yesterday 20.05.2021	Today 21.05.2021	Yesterday 20.05.2021
4/95 @ 20 feet	7:15 –8:15 AM	+111↓↓	27	85↓↓	25	+85	NA	+65	NA	166 MODERATE	78 SATISFACTORY	156 MODERATE	NA
3/34 @ 40 feet	8:30 – 9: 30AM	+114↓↓	29	90↓↓	28	+75	NA	+59	NA	169 MODERATE	84 SATISFACTORY	153 MODERATE	NA
Science Faculty @ 20 feet	10:00 – 11:00AM	+48↓	28	+24	26	+28	NA	+14	NA	76 SATISFACTORY	80 SATISFACTORY	55 SATISFACTORY	NA
Dairy @ 6 feet	12:00 – 1:00 PM	✓+14	13	✓+9↑	11	+30	NA	+19	NA	38 GOOD	46 GOOD	66 SATISFACTORY	NA
Control Room @ 6 feet	1:15 – 2:15 PM	+49↓↓	19	+27↓	15	+31	NA	+17	NA	82 SATISFACTORY	57 SATISFACTORY	61 SATISFACTORY	NA

Sampling was performed on 21.05.2021. Data for Sanjay Place is not available after 3:00 pm yesterday (19.5.2021)

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

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 21.05.2021

Location : Boys Hostel
Time : 3:30 – 4:30 PM
Wind Speed : 4. 7 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	**+ 74**	**✓+ 55**	**149 – MODERATE**
Sanjay Place @ 40feet	**+ 57**	**+42**	**117 – MODERATE**

Sampling was performed on 20.05.2021.

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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 –

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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