Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 20.04.2021

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 20.04.2021	Yesterday 19.04.2021	Today 20.04.2021	Yesterday 19.04.2021	Today 20.04.2021	Yesterday 19.04.2021	Today 20.04.2021	Yesterday 19.04.2021	Today 20.04.2021	Yesterday 19.04.2021	Today 20.04.2021	Yesterday 19.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	178↑	224	114↓	86	NA	NA	NA	NA	181 MODERATE	167 MODERATE	NA	NA
3/34 @ 40 feet	8:30 – 9: 30AM	207↓	183	124↓	80	NA	NA	NA	NA	186 MODERATE	164 MODERATE	NA	NA
Science Faculty @ 20 feet	10:00 – 11:00AM	187↑	212	+59↑	63	NA	NA	NA	NA	153 MODERATE	155 MODERATE	NA	NA
Dairy @ 6 feet	11:45 – 12:45 PM	+101↑	146	+27↑	32	NA	NA	NA	NA	82 SATISFACTORY	93 SATISFACTORY	NA	NA
Control Room @ 6 feet	1:00 – 2:00 PM	+113↑	138	+33↑	38	NA	NA	NA	NA	95 SATISFACTORY	107 MODERATE	NA	NA

Sampling was performed on 20.04.2021. Data for Sanjay Place is not available since 18.4.2021

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

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AIR QUALITY MONITORING REPORT – Dated: 20.04.2021

Location : Senior Boys Hostel
Time : 3: 00 – 4:00 PM
Wind Speed : 3.1 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	**336**	**+ 43**	**119 – MODERATE**
Sanjay Place @ 40feet	**NA**	**NA**	**NA**

Sampling was performed on 19.04.2021.

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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.
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+Denotes values are near or within permissible limits