Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 21.04.2021

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 21.04.2021	Yesterday 20.04.2021	Today 21.04.2021	Yesterday 20.04.2021	Today 21.04.2021	Yesterday 20.04.2021	Today 21.04.2021	Yesterday 20.04.2021	Today 21.04.2021	Yesterday 20.04.2021	Today 21.04.2021	Yesterday 20.04.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓114↑	178	✓+37↑↑	114	176	NA	57	NA	105 MODERATE	181 MODERATE	152 MODERATE	NA
Ladder (Ghodi) @ 12 feet	8:30 – 9: 30AM	✓122↑↑	207	✓+40↑↑	124	131	NA	43	NA	112 MODERATE	186 MODERATE	119 MODERATE	NA
Science Faculty @ 20 feet	10:00 – 11:00AM	✓173↑	187	✓+46↑	59	282	NA	75	NA	127 MODERATE	153 MODERATE	161 MODERATE	NA
Dairy @ 6 feet	11:45 – 12:45 PM	✓+84↑	101	✓+18↑	27	215	NA	46	NA	63 SATISFACTORY	82 SATISFACTORY	127 MODERATE	NA
Control Room @ 6 feet	1:00 – 2:00 PM	✓+66↑	113	✓+13↑↑	33	178	NA	35	NA	53 SATISFACTORY	95 SATISFACTORY	99 SATISFACTORY	NA

Sampling was performed on 21.04.2021.

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 **($PM_{2.5}$)**, 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: 21.04.2021

Location : Punjabi Farm
Time : 3: 00 – 4:00 PM
Wind Speed : 3.2 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	**✓124**	**✓+ 29**	**87 – SATISFACTORY**
Sanjay Place @ 40feet	**209**	**+49**	**134 – MODERATE**

Sampling was performed on 20.04.2021.

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+Denotes values are near or within permissible limits