Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 28.04.2021

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 28.04.2021	Yesterday 27.04.2021	Today 28.04.2021	Yesterday 27.04.2021	Today 28.04.2021	Yesterday 27.04.2021	Today 28.04.2021	Yesterday 27.04.2021	Today 28.04.2021	Yesterday 27.04.2021	Today 28.04.2021	Yesterday 27.04.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓203	206	✓111↓↓	67	207	206	113↓↓	67	180 MODERATE	157 MODERATE	181 MODERATE	157 MODERATE
Ladder at PN (Ghodi) @ 12 feet	8:30 – 9: 30AM	✓262↓	195	✓104↓↓	61	292↓	262	116↓	82	176 MODERATE	154 MODERATE	182 MODERATE	165 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓248↓	175	✓91↓↓	50	346↓↓	262	127↓↓	75	169 MODERATE	137 MODERATE	188 MODERATE	161 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓169↓	126	✓+52↓	36	286↓	238	88↓	68	142 MODERATE	102 MODERATE	168 MODERATE	157 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓124↑	134	✓+35↓	33	280↓↓	199	79↓	49	99 SATISFACTORY	95 SATISFACTORY	163 MODERATE	134 MODERATE

Sampling was performed on 28.04.2021.

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: 28.04.2021

Location : Sikandarpur
Time : 4: 00 – 5:00 PM
Wind Speed : 3.8 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	**✓150**	**✓+29**	**87 – SATISFACTORY**
Sanjay Place @ 40feet	**217**	**+42**	**117 – MODERATE**

Sampling was performed on 27.04.2021.

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