Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 25.04.2021

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 $PM_{2.5}$ 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 25.04.2021	Yesterday 24.04.2021	Today 25.04.2021	Yesterday 24.04.2021	Today 25.04.2021	Yesterday 24.04.2021	Today 25.04.2021	Yesterday 24.04.2021	Today 25.04.2021	Yesterday 24.04.2021	Today 25.04.2021	Yesterday 24.04.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓234↓↓	109	✓113↓↓	51	236↓↓	130	114↓↓	61	181 MODERATE	139 MODERATE	181 MODERATE	154 MODERATE
Ladder at PN (Ghodi) @ 12 feet	8:30 – 9:30AM	✓194↓	104	✓79↓↓	40	235↓↓	130	96↓↓	50	163 MODERATE	112 MODERATE	172 MODERATE	137 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+105↓	79	✓+32	31	138↓	97	+42↓	38	93 SATISFACTORY	91 SATISFACTORY	117 MODERATE	107 MODERATE
Dairy @ 6 feet	11:45 – 12:45 PM	✓+97↓	89	✓+27	28	133↓	121	+37	38	82 SATISFACTORY	84 SATISFACTORY	105 MODERATE	107 MODERATE
Control Room @ 6 feet	1:00 – 2:00 PM	✓+86↓	60	✓+25	21	134↓↓	74	+39↓	26	78 SATISFACTORY	70 SATISFACTORY	110 MODERATE	80 SATISFACTORY

Sampling was performed on 25.04.2021.

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

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 25.04.2021

Location : Sikandarpur
Time : 4: 00 – 5:00 PM
Wind Speed : 4.6 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	✓+92	✓+ 29	**87 – SATISFACTORY**
Sanjay Place @ 40feet	+76	+24	**76 – SATISFACTORY**

Sampling was performed on 24.04.2021.

NOTE: 1 A continuous study conducted as part of **Dayalbagh Sigma Six Qualities and Values Model** implementation.

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