Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 30.05.2021

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 309.05.2021	Yesterday 29.05.2021	Today 30.05.2021	Yesterday 29.05.2021	Today 30.05.2021	Yesterday 29.05.2021	Today 30.05.2021	Yesterday 29.05.2021	Today 30.05.2021	Yesterday 29.05.2021	Today 30.05.2021	Yesterday 29.05.2021
4/97 @ 20 feet	7:15 –8:15 AM	✓+41↓	26	✓+24↓	09	+29↑	32	+17↓	11	76 SATISFACTORY	38 GOOD	61 SATISFACTORY	46 GOOD
3/34 @ 40 feet	8:30 – 9: 30AM	+42	39	✓+21↓	12	NA	26	NA	08	70 SATISFACTORY	30	NA	33 GOOD
Science Faculty @ 20 feet	10:00 – 11:00AM	+48↓	29	✓+21↓	08	NA	87	NA	24	70 SATISFACTORY	33 GOOD	NA	76 SATISFACTORY
Dairy @ 6 feet	12:00 – 1:00 PM	+45↓	24	+15↓	07	NA	89	NA	26	57 SATISFACTORY	29 GOOD	NA	80 SATISFACTORY
Control Room @ 6 feet	1:15 – 2:15 PM	+46↓	27	+15↓	07	NA	96	NA	25	57 SATISFACTORY	29 GOOD	NA	78 SATISFACTORY

Sampling was performed on 30.05.2021. Data for Sanjay Place are not available after 8:00 am today

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: 30.05.2021

Location : Sikandarpur
Time : 3:45 – 4:45 PM
Wind Speed : 4.8 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	**✓+54**	**✓+ 10**	**42 – GOOD**
Sanjay Place @ 40feet	**+97**	**+ 18**	**63– SATISFACTORY**

Sampling was performed on 29.05.2021.

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