Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 27.05.2021

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 27.05.2021	Yesterday 26.05.2021	Today 27.05.2021	Yesterday 26.05.2021	Today 27.05.2021	Yesterday 26.05.2021	Today 27.05.2021	Yesterday 26.05.2021	Today 27.05.2021	Yesterday 26.05.2021	Today 27.05.2021	Yesterday 26.05.2021
4/95 @ 20 feet	7:15 –8:15 AM	227↓↓	144	105↓↓	66	201↓↓	126	93↓↓	58	177 MODERATE	156 MODERATE	170 MODERATE	152 MODERATE
3/34 @ 40 feet	8:30 – 9: 30AM	✓188↓	116	103↓↓	45	201↓	150	93↓↓	58	176 MODERATE	124 MODERATE	170 MODERATE	152 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+93↓	63	✓+30↓	21	174↓↓	93	+56↓↓	31	89 SATISFACTORY	70 SATISFACTORY	151 MODERATE	91 SATISFACTORY
Dairy @ 6 feet	12:00 – 1:00 PM	✓+81	83	✓+21↑	25	+95↓	113	+53↓	34	70 SATISFACTORY	78 SATISFACTORY	144 MODERATE	97 SATISFACTORY
Control Room @ 6 feet	1:15 – 2:15 PM	✓+75↑	82	✓+17↑	24	+92↑	109	+51↓	32	61 SATISFACTORY	76 SATISFACTORY	139 MODERATE	93 SATISFACTORY

Sampling was performed on 27.05.2021.

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 PM2.5 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 (**PM2.5**), 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: 27.05.2021

Location   :   Sikandarpur
Time   :   3:30 – 4:30 PM
Wind Speed :   5.4 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	✓+108	✓+ 26	**80 – SATISFACTORY**
Sanjay Place @ 40feet	125	+ 30	**89 – SATISFACTORY**

Sampling was performed on 26.05.2021.

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