

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING REPORT – Dated: 10.04.2021

Permissible Limits: PM<sub>10</sub> = 100; PM<sub>2.5</sub> = 60, all units are in µg/m<sup>3</sup>

Sampling Site and Height	Duration of Sampling	DAYALBAGH				SANJAY PLACE @ 40 feet (Arithmetic Mean)				AIR QUALITY INDEX (AQI) ON THE BASIS OF PM <sub>2.5</sub> CONCENTRATION			
		PM <sub>10</sub> [µg/m <sup>3</sup> ]		PM <sub>2.5</sub> [µg/m <sup>3</sup> ]		PM <sub>10</sub> [µg/m <sup>3</sup> ] Calculated on the basis of PM <sub>10</sub> /PM <sub>2.5</sub> ratio at Dayalbagh		PM <sub>2.5</sub> [µg/m <sup>3</sup> ] @ 40 feet		DAYALBAGH		SANJAY PLACE @ 40 feet	
		Today 10.04.2021	Yesterday 9.04.2021	Today 10.04.2021	Yesterday 9.04.2021	Today 10.04.2021	Yesterday 9.04.2021	Today 10.04.2021	Yesterday 9.04.2021	Today 10.04.2021	Yesterday 9.04.2021	Today 10.04.2021	Yesterday 9.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓236↓	197	✓76↑	103	312	NA	179	NA	162 MODERATE	176 MODERATE	229 POOR	NA
3/34 @ 40 feet	8:30 – 9: 30AM	✓190↑	203	✓109↓	85	310	NA	178	NA	179 MODERATE	166 MODERATE	228 POOR	NA
Science Faculty @ 20 feet	10:00 – 11:00AM	✓248↓	180	✓93↓	64	280	NA	105	NA	170 MODERATE	155 MODERATE	177 MODERATE	NA
Dairy @ 6 feet	11:45 – 12:45 PM	✓+105↑	116	✓+31	29	139	NA	+41	NA	91 SATISFACTORY	87 SATISFACTORY	115 MODERATE	NA
Control Room @ 6 feet	1:00 – 2:00 PM	✓+99↑	112	✓+23↑	27	181	NA	+42	NA	74 SATISFACTORY	82 SATISFACTORY	117 MODERATE	NA

Sampling was performed on 10.04.2021.

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<sub>2.5</sub> 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<sub>2.5</sub>), C<sub>low</sub>=Concentration Breakpoint ≤C, C<sub>high</sub>=Concentration Breakpoint ≥C, I<sub>low</sub>=Index Break point corresponding to C<sub>low</sub>, I<sub>high</sub>=Index Breakpoint corresponding to C<sub>high</sub>

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: 10.04.2021

Location : Sikandarpur  
 Time : 4: 15 – 5:15 PM  
 Wind Speed : 4.1 km/h

Permissible Limits: PM<sub>10</sub> = 100; PM<sub>2.5</sub> = 60, all units are in µg/m<sup>3</sup>

Data Type	PM <sub>10</sub> [µg/m <sup>3</sup> ]	PM <sub>2.5</sub> [µg/m <sup>3</sup> ]	AIR QUALITY INDEX (AQI) ON THE BASIS OF PM <sub>2.5</sub> CONCENTRATION
<b>Field Data (TWA) @6feet</b>	✓256	✓+ 42	<b>117 – MODERATE</b>
<b>Sanjay Place @ 40feet</b>	274	+45	<b>124 – MODERATE</b>

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