

## Radhasoami Dayal Ki Daya Radhasoami Sahai

### AIR QUALITY MONITORING REPORT – Dated: 20.05.2021

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 20.05.2021	Yesterday 19.05.2021	Today 20.05.2021	Yesterday 19.05.2021	Today 20.05.2021	Yesterday 19.05.2021	Today 20.05.2021	Yesterday 19.05.2021	Today 20.05.2021	Yesterday 19.05.2021	Today 20.05.2021	Yesterday 19.05.2021
4/95 @ 20 feet	8:00 – 9:00 AM	+27↑↑	70	+25↑↑	62	NA	37	NA	33	78 SATISFACTORY	154 MODERATE	NA	95 SATISFACTORY
3/34 @ 40 feet	9:15 – 10: 15AM	+29↑↑	70	+28↑↑	65	NA	53	NA	49	84 SATISFACTORY	156 MODERATE	NA	134 MODERATE
Science Faculty @ 20 feet	10:30 – 11:30AM	+28↑↑	62	+26↑↑	58	NA	NA	NA	NA	80 SATISFACTORY	152 MODERATE	NA	NA
Dairy @ 6 feet	12:00 – 1:00 PM	+13↑↑	60	+11↑↑	56	NA	NA	NA	NA	46 GOOD	151 MODERATE	NA	NA
Control Room @ 6 feet	1:15 – 2:15 PM	+19↑↑	42	+15↑↑	39	NA	50	NA	46	57 SATISFACTORY	110 MODERATE	NA	127 MODERATE

*Sampling was performed on 20.05.2021. Data for Sanjay Place is not available after 3:00 pm yesterday (19.5.2021)*

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: 20.05.2021

Location : Sikandarpur  
 Time : 3:30 – 4:30 PM  
 Wind Speed : 6.3 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>	+ 42	+ 41	<b>115 – MODERATE</b>
<b>Sanjay Place @ 40feet</b>	NA	NA	NA

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