

## Radhasoami Dayal Ki Daya Radhasoami Sahai

### AIR QUALITY MONITORING REPORT – Dated: 16.05.2021

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 16.05.2021	Yesterday 15.05.2021	Today 16.05.2021	Yesterday 15.05.2021	Today 16.05.2021	Yesterday 15.05.2021	Today 16.05.2021	Yesterday 15.05.2021	Today 16.05.2021	Yesterday 15.05.2021	Today 16.05.2021	Yesterday 15.05.2021
4/95 @ 20 feet	7:15 – 8:15 AM	160↓↓	72	89↓	48	119↓↓	56	+66↓	37	168 MODERATE	132 MODERATE	156 MODERATE	105 MODERATE
Ladder at PN (Ghodi) @ 12 feet	8:30 – 9: 30AM	✓146↓↓	72	✓+70↓	52	152↓↓	66	+73↓	48	158 MODERATE	142 MODERATE	160 MODERATE	132 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+102↓↓	52	✓+44↓	36	116↓↓	51	+50↓	35	122 MODERATE	102 MODERATE	137 MODERATE	99 SATISFACTORY
Dairy @ 6 feet	12:00 – 1:00 PM	✓+63↓	58	✓+27↑	31	+107↓↓	67	+46↓	36	82 SATISFACTORY	91 SATISFACTORY	127 MODERATE	102 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓+62↑	87	✓+26↑	36	+93↓	85	+39↓	35	80 SATISFACTORY	102 MODERATE	110 MODERATE	99 SATISFACTORY

Sampling was performed on 16.05.2021.

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 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

## Radhasoami Dayal Ki Daya Radhasoami Sahai

### AIR QUALITY MONITORING REPORT – Dated: 16.05.2021

Location : Punjabi Farm  
 Time : 3:45 – 4:45 PM  
 Wind Speed : 5.4 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
Field Data (TWA) @6feet	✓ 125	✓+ 39	<b>110 – MODERATE</b>
Sanjay Place @ 40feet	147	+ 46	<b>127 - MODERATE</b>

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