

## Radhasoami Dayal Ki Daya Radhasoami Sahai

### AIR QUALITY MONITORING REPORT – Dated: 25.05.2021

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 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021	Today 24.05.2021	Yesterday 23.05.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓164↓↓	95	✓+49↓	36	258↓↓	140	77↓	53	134 MODERATE	102 MODERATE	162 MODERATE	144 MODERATE
3/34 @ 40 feet	8:30 – 9: 30AM	✓+107↓	90	✓+35	32	214↓↓	135	+70↓	48	99 SATISFACTORY	93 SATISFACTORY	158 MODERATE	132 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+75↑	89	✓+22↑	26	164↑	171	+48	50	72 SATISFACTORY	80 SATISFACTORY	132 MODERATE	137 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓+88↑	113	✓+25↓	20	169↓	137	+48↑	52	78 SATISFACTORY	68 SATISFACTORY	132 MODERATE	142 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓+66	68	✓+20↓	13	152↓	133	+46↑	51	68 SATISFACTORY	53 SATISFACTORY	127 MODERATE	139 MODERATE

Sampling was performed on 25.05.2021.

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

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## AIR QUALITY MONITORING REPORT – Dated: 25.05.2021

Location : Punjabi Farm  
 Time : 4:00 – 5:00 PM  
 Wind Speed : 8.6 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>	✓+ 66	✓+ 17	<b>61 – SATISFACTORY</b>
<b>Sanjay Place @ 40feet</b>	155	+ 40	<b>112 – MODERATE</b>

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