

## Radhasoami Dayal Ki Daya Radhasoami Sahai

### AIR QUALITY MONITORING REPORT – Dated: 17.05.2021

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 17.05.2021	Yesterday 16.05.2021	Today 17.05.2021	Yesterday 16.05.2021	Today 17.05.2021	Yesterday 16.05.2021	Today 17.05.2021	Yesterday 16.05.2021	Today 17.05.2021	Yesterday 16.05.2021	Today 17.05.2021	Yesterday 16.05.2021
4/95 @ 20 feet	7:15 – 8:15 AM	+99↑↑	160	+46↑	89	NA	119	NA	66	127 MODERATE	168 MODERATE	NA	156 MODERATE
Ladder at PN (Ghodi) @ 12 feet	8:30 – 9: 30AM	123↑	146	+54↑	70	NA	152	NA	73	147 MODERATE	158 MODERATE	NA	160 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	+96↑	102	+44	44	NA	116	NA	50	122 MODERATE	122 MODERATE	NA	137 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	+96↑	63	+45↓	27	NA	107	NA	46	124 MODERATE	82 SATISFACTORY	NA	127 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	+65↓	62	+30↓	26	NA	93	NA	39	89 SATISFACTORY	80 SATISFACTORY	NA	110 MODERATE

Sampling was performed on 17.05.2021. Data for Sanjay Place is not available after 5:00pm yesterday (16.5.2021)

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

## Radhasoami Dayal Ki Daya Radhasoami Sahai

### AIR QUALITY MONITORING REPORT – Dated: 17.05.2021

Location : Punjabi Farm  
 Time : 3:45 – 4:45 PM  
 Wind Speed : 3.5 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>	<b>132</b>	<b>✓+ 40</b>	<b>112 – MODERATE</b>
<b>Sanjay Place @ 40feet</b>	<b>+106</b>	<b>+ 32</b>	<b>93 - SATISFACTORY</b>

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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>

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