

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.10.2021  
(BASED ON US-EPA AQI STANDARDS)

Permissible Limits (24 Hour Mean): PM<sub>10</sub> = 150; PM<sub>2.5</sub> = 35, all units are in µg/m<sup>3</sup>

| Site Location   | Sampling Time (24 hrs)    | DAYALBAGH<br>(TIME WEIGHTED AVERAGE DATA) |                                 |                             |                                 |                                          |           |     |         |                            |          | SANJAY PLACE<br>(ARITHMETIC MEAN DATA) |                                 |                             |                                 |                                             |           |    |         |                        |          |
|-----------------|---------------------------|-------------------------------------------|---------------------------------|-----------------------------|---------------------------------|------------------------------------------|-----------|-----|---------|----------------------------|----------|----------------------------------------|---------------------------------|-----------------------------|---------------------------------|---------------------------------------------|-----------|----|---------|------------------------|----------|
|                 |                           | AQI                                       |                                 |                             |                                 | Meteorological Parameters @<br>Dayalbagh |           |     |         |                            |          | AQI                                    |                                 |                             |                                 | Meteorological Parameters @<br>Sanjay Place |           |    |         |                        |          |
|                 |                           | PM <sub>2.5</sub>                         |                                 | PM <sub>10</sub>            |                                 |                                          |           |     |         |                            |          | PM <sub>2.5</sub>                      |                                 | PM <sub>10</sub>            |                                 |                                             |           |    |         |                        |          |
|                 |                           | Today<br>Oct 19 -<br>Oct 18               | Yesterday<br>Oct 18 -<br>Oct 17 | Today<br>Oct 19 -<br>Oct 18 | Yesterday<br>Oct 18 -<br>Oct 17 | RH<br>%                                  | WS<br>m/s | WD  | T<br>°C | SR<br>W/<br>m <sup>2</sup> | RF<br>mm | Today<br>Oct 19 -<br>Oct 18            | Yesterday<br>Oct 18 -<br>Oct 17 | Today<br>Oct 19 -<br>Oct 18 | Yesterday<br>Oct 18 -<br>Oct 17 | RH<br>%                                     | WS<br>m/s | WD | T<br>°C | SR<br>W/m <sup>2</sup> | RF<br>mm |
| 4 / 97          | 09:00 am<br>–<br>09:00am  | 78<br>M                                   | 61<br>M                         | 40<br>G                     | 26<br>G                         | 95                                       | 3.9       | SSW | 22      | 23                         | 45       | 63<br>M                                | 59<br>M                         | 49<br>G                     | 51<br>M                         | 87                                          | 0.3       | SW | 20      | 42                     | 74       |
| 3 / 34          | 09:00 am<br>–<br>09:00am  | NA                                        | 68<br>M                         | NA                          | 24<br>G                         | NA                                       | NA        | NA  | NA      | NA                         | 45       |                                        |                                 |                             |                                 |                                             |           |    |         |                        |          |
| Science Faculty | 09:00 am<br>–<br>09:00 am | 72<br>M                                   | 68<br>M                         | 26<br>G                     | 24<br>G                         | 96                                       | 2.6       | W   | 22      | 23                         | 45       |                                        |                                 |                             |                                 |                                             |           |    |         |                        |          |

Remarks Today: Short circuit caused by heavy rainfall

Good- G

Moderate- M

Unhealthy for Sensitive Groups -US

Unhealthy- UH

Very Unhealthy - VUH

Hazardous - H

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 (PM2.5), 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>