

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## ]]AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 1.4.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

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> | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

|                 | Date<br><br>Today:<br><br>April 1–<br>March 31<br>Yesterday<br><br>March 31 -<br>30 | DAYALBAGH<br>(TIME WEIGHTED AVERAGE DATA) |                  |                           |        |     |      |      |                     |       | Date<br><br>Today:<br><br>April 1–<br>March 31<br>Yesterday<br><br>March 31 -<br>30 | SANJAY PLACE<br>(ARITHMETIC MEAN DATA) |                  |                           |        |     |      |      |                     |       |
|-----------------|---|---|------------------|---------------------------|--------|-----|------|------|---------------------|-------|---|--|------------------|---------------------------|--------|-----|------|------|---------------------|-------|
|                 |   | Air Quality Index                         |                  | Meteorological Parameters |        |     |      |      |                     |       |   | AQI                                    |                  | Meteorological Parameters |        |     |      |      |                     |       |
|                 |   | PM <sub>2.5</sub>                         | PM <sub>10</sub> | RH %                      | WS m/s | WD  | T °C |      | SR W/m <sup>2</sup> | RF mm |   | PM <sub>2.5</sub>                      | PM <sub>10</sub> | RH %                      | WS m/s | WD  | T °C |      | SR W/m <sup>2</sup> | RF mm |
|                 |   |   |                  |                           |        |     | Max  | Min  |                     |       |   |  |                  |                           |        |     | Max  | Min  |                     |       |
| 4 / 97          | Today   | 132                                       | 102              | 37                        | 2.6    | NW  | 43.5 | 24.6 | 147                 | 0     | Today   | 172                                    | 157              | 34                        | 2.6    | NNE | 44.3 | 27.1 | 175                 | 0     |
|                 | Yesterday   | 91  | 81               | 32                        | 2.0    | SSE | 42.5 | 26.9 | 145                 | 0     |   |  |                  |                           |        |     |      |      |                     |       |
| 3 / 34          | Today   | 152                                       | 79               | 39                        | 2.6    | NW  | 42.8 | 24.9 | 135                 | 0     | Yesterday   | 161                                    | 138              | 32                        | 2.3    | WSW | 44.2 | 28.3 | 177                 | 0     |
|                 | Yesterday   | 102                                       | 60               | 33                        | 2.0    | SSE | 41.9 | 26.3 | 134                 | 0     |   |  |                  |                           |        |     |      |      |                     |       |
| Science Faculty | Today   | 154                                       | 86               | 40                        | 2.7    | NW  | 43.0 | 24.5 | 142                 | 0     | Yesterday   |  |                  |                           |        |     |      |      |                     |       |
|                 | Yesterday   | 119                                       | 70               | 34                        | 2.0    | SSE | 41.7 | 25.5 | 144                 | 0     |   |  |                  |                           |        |     |      |      |                     |       |

**Views of AQI Research Group:** Change in Wind Direction is probably the reason for increase in AQI of both micron Particulate Pollutants. Mild increase in Relative Humidity may have also contributed to the deterioration. The AQI at Dayalbagh remained better than that at Sanjay Place.

**Remarks of Revered Chairman-ACE:** Continue Research Investigations at all levels from entrance to exit of concerned Alumni Groups – as designated.-

**Received: Friday, 1 April 2022, 1:03 PM**

**Perused : Subject to Legalese / Legalise / “Laws of the Land”**



**Friday, 1 April 2022, 5:23 PM**

-----QWQWSDW

Good -G

Moderate- M

Unhealthy for Sensitive Groups- UHS

Unhealthy for All- UHA

Very Unhealthy for All-VUHA

Hazardous for All- HZA

Hazardous for All-HZA

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>