

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 29.3.2022 (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  | DAYALBAGH<br>(TIME WEIGHTED AVERAGE DATA) |                  |                           |        |     |      |      |                     |       | Date  | SANJAY PLACE<br>(ARITHMETIC MEAN DATA) |                  |                           |        |     |      |      |                     |       |
|-----------------|---|---|------------------|---------------------------|--------|-----|------|------|---------------------|-------|---|--|------------------|---------------------------|--------|-----|------|------|---------------------|-------|
|                 | Today:  | AQI                                       |                  | Meteorological Parameters |        |     |      |      |                     |       | Today:  | AQI                                    |                  | Meteorological Parameters |        |     |      |      |                     |       |
|                 | March 29 – 28<br><br>Yesterday<br><br>March 28 - 27 | PM <sub>2.5</sub>                         | PM <sub>10</sub> | RH %                      | WS m/s | WD  | T °C |      | SR W/m <sup>2</sup> | RF mm | March 29 – 28<br><br>Yesterday<br><br>March 28 - 27 | 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   | 107                                       | 90               | 29                        | 2.1    | S   | 42.0 | 22.9 | 147                 | 0     | Today   | 166                                    | 156              | 29                        | 2.2    | NE  | 42.9 | 23.4 | 184                 | 0     |
|                 | Yesterday   | 93  | 83               | 34                        | 2.7    | SSE | 40.3 | 22.3 | 141                 | 0     |   |  |                  |                           |        |     |      |      |                     |       |
| 3 / 34          | Today   | 122                                       | 65               | 33                        | 2.1    | S   | 41.0 | 23.4 | 127                 | 0     | Yesterday   | 166                                    | 146              | 31                        | 2.2    | NNE | 41.1 | 25.4 | 181                 | 0     |
|                 | Yesterday   | 107                                       | 60               | 38                        | 2.7    | SSE | 39.2 | 22.0 | 126                 | 0     |   |  |                  |                           |        |     |      |      |                     |       |
| Science Faculty | Today   | 127                                       | 71               | 34                        | 2.1    | S   | 40.7 | 22.4 | 148                 | 0     | Yesterday   | 166                                    | 146              | 31                        | 2.2    | NNE | 41.1 | 25.4 | 181                 | 0     |
|                 | Yesterday   | 119                                       | 67               | 39                        | 2.7    | SSE | 38.4 | 20.9 | 148                 | 0     |   |  |                  |                           |        |     |      |      |                     |       |

**Views of AQI Research Group:** The AQI at Dayalbagh remained better than that at Sanjay Place. However, there has been a marginal increase in pollution levels compared to yesterday, probably due to changed Wind Direction and decreased Wind Speed. Despite significant increase in agricultural activity in Dayalbagh, there is no significant negative impact on the Air Quality perhaps due to the pre-planned decentralised threshing Operations.

**Remarks of Revered Chairman-ACE:**

**Received: Tuesday, 29 March 2022, 11:53 AM**

**Tuesday, 29 March 2022, PM**

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>