

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 14.3.2022 (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 14 - 13 | 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 14 - 13 | PM <sub>2.5</sub>                      | PM <sub>10</sub> | RH %                      | WS m/s | WD  | T °C |      | SR W/m <sup>2</sup> | RF mm |
|                 | Yesterday     |   |                  |                           |        |    | Max  | Min  |                     |       | Yesterday     |  |                  |                           |        |     | Max  | Min  |                     |       |
| 4 / 97          | Today         | 144                                       | 97               | 52                        | 2.1    | SE | 36.2 | 20.2 | 129                 | 0     | Today         | 170                                    | 140              | 46                        | 1.4    | NE  | 36.1 | 22.1 | 154                 | 0     |
|                 | Yesterday     | 107                                       | 72               | 51                        | 2.3    | SE | 34.0 | 19.1 | 119                 | 0     |               |  |                  |                           |        |     |      |      |                     |       |
| 3 / 34          | Today         | 154                                       | 73               | 55                        | 2.2    | SE | 34.8 | 20.2 | 113                 | 0     | Yesterday     | 156                                    | 110              | 45                        | 2.3    | NNE | 33.3 | 20.2 | 165                 | 0     |
|                 | Yesterday     | 129                                       | 60               | 55                        | 2.3    | SE | 32.1 | 18.3 | 114                 | 0     |               |  |                  |                           |        |     |      |      |                     |       |
| Science Faculty | Today         | 156                                       | 77               | 57                        | 2.1    | SE | 34.2 | 19.9 | 118                 | 0     |               |  |                  |                           |        |     |      |      |                     |       |
|                 | Yesterday     | 129                                       | 61               | 58                        | 2.3    | SE | 31.6 | 17.8 | 124                 | 0     |               |  |                  |                           |        |     |      |      |                     |       |

**Views of AQI Research Group:** Air Quality has marginally deteriorated at all sites probably influenced by decrease in Wind Speed, however at Dayalbagh the AQI remained better than Sanjay Place for both the Particulate Pollutants.

**Remarks of Revered Chairman-ACE:** Increased Solar Radiation at Vidyut Nagar should be investigated at all levels including at International Level (ICA) by being referred to all concerned Dr Apurva Narain, PB Nova Bhojwani, DRSNAA President - PB K B Mehta, AFFDEIS President - PB R K Sharma.

**Received:** Monday, 14 March 2022, 12:27 PM

**Perused:**

**Monday, 14 March 2022, 5:40 PM**

Good - G

Moderate- M

Unhealthy for Sensitive Groups- UHS

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>