# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.1.2022

## (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

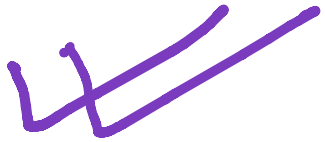
**Permissible Limits (24 Hour Mean) : $PM_{10}$ = 150; $PM_{2.5}$ = 35, all units are in µg/$m^3$ | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)**

| | Date | DAYALBAGH (TIME WEIGHTED AVERAGE DATA) | | | | | | | | Date | SANJAY PLACE (ARITHMETIC MEAN DATA) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AQI | | Meteorological Parameters | | | | | | | AQI | | Meteorological Parameters | | | | | |
| | Today: Jan 12 -11 Yesterday: Jan 11 - 10 | $PM_{2.5}$ | $PM_{10}$ | RH % | WS m/s | WD | T ˚C | SR W/$m^2$ | RF mm | Today: Jan 12 -11 Yesterday: Jan 11 - 10 | $PM_{2.5}$ | $PM_{10}$ | RH % | WS m/s | WD | T ˚C | SR W/$m^2$ | RF mm |
| 4 / 97 | Today | 161 | 106 | 79 | 1.9 | WNW | 14 | 54 | 0 | Today | 134 | 94 | 76 | 2.5 | WNW | 9.2 | 96 | 0 |
| | Yesterday | 162 | 111 | 84 | 2.5 | WNW | 13 | 38 | 0 | | | | | | | | | |
| 3 / 34 | Today | 166 | 100 | 82 | 1.9 | WNW | 13 | 70 | 0 | | | | | | | | | |
| | Yesterday | 163 | 110 | 87 | 2.6 | WNW | 13 | 47 | 0 | | | | | | | | | |
| Science Faculty | Today | 162 | 98 | 85 | 3.0 | ESE | 13 | 54 | 0 | Yesterday | 157 | 96 | 79 | 1.9 | WNW | 9.5 | 65 | 0 |
| | Yesterday | 176 | 104 | 89 | 3.0 | NE | 13 | 43 | 0 | | | | | | | | | |

**Views of AQI Research Group:** AQI at Dayalbagh and Sanjay Place saw minor improvement. Relative Humidity fell a few notches. Solar Radiation increased across locations. Within Dayalbagh, the best AQI was at Science Faculty.

**Remarks of Revered Chairman-ACE:**

**Received:** Wednesday, 12 January 2022, 12:05 PM



Wednesday, 12 January 2022, 3:33 PM

Good -G | Moderate- M | Unhealthy for Sensitive Groups- US | Unhealthy for All-UH | Very Unhealthy for All-VUH | Hazardous for All- HZ | Hazardous for All-HZ

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 $PM_{2.5}$ 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), Clow=Concentration Breakpoint ≤C, Chigh=Concentration Breakpoint ≥C, Ilow=Index Break point corresponding to Clow, Ihigh=Index Breakpoint corresponding to Chigh