# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 9.1.2022

## (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 9 - 8 Yesterday: Jan 8 - 7 | $PM_{2.5}$ | $PM_{10}$ | RH % | WS m/s | WD | T °C | SR W/$m^2$ | RF mm | Today: Jan 9 - 8 Yesterday: Jan 8 - 7 | $PM_{2.5}$ | $PM_{10}$ | RH % | WS m/s | WD | T °C | SR W/$m^2$ | RF mm |
| 4 / 97 | Today | 129 | 70 | 92 | 3.5 | ESE | 16 | 18 | 10 | Today | 99 | 63 | 86 | 2.8 | SE | 13.5 | 33 | 7.2 |
| | Yesterday | 152 | 77 | 90 | 4.1 | SE | 17 | 27 | 9.6 | | | | | | | | | |
| 3 / 34 | Today | 147 | 71 | 94 | 3.6 | ESE | 16 | 19 | 10 | | | | | | | | | |
| | Yesterday | 134 | 69 | 91 | 4.0 | SE | 17 | 31 | 9.6 | Yesterday | 95 | 54 | 83 | 2.4 | SW | 14 | 45 | 9.6 |
| Science Faculty | Today | 155 | 65 | 95 | 2.5 | SSW | 16 | 18 | 10 | | | | | | | | | |
| | Yesterday | 158 | 77 | 92 | 2.5 | WSW | 17 | 28 | 9.6 | | | | | | | | | |

**Views of AQI Research Group:** Rainfall seems to have helped AQI improve at all three locations in Dayalbagh. Relative Humidity at Dayalbagh continues to be higher in comparison to Sanjay Place. Lower wind speed at Science Faculty could be the reason for lesser dispersal.

**Remarks of Revered Chairman-ACE:** Undue misting should be avoided in Prem Nagar. It should be based on same criterion for all residential areas.

**Received:** Sunday, 09 January 2022, 12:40 PM

Sunday, 09 January 2022,

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