# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 2.3.2022
## (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

**Permissible Limits (24 Hour Mean) :   PM₁₀ = 150; PM₂.₅ = 35, all units are in µg/m³ | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)**

$$Permissible~Limits~(24~Hour~Mean):~PM_{10}=150;~PM_{2.5}=35$$

| Date | | DAYALBAGH (TIME WEIGHTED AVERAGE DATA) | | | | | | | | | Date | SANJAY PLACE (ARITHMETIC MEAN DATA) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AQI | | Meteorological Parameters | | | | | | | | AQI | | Meteorological Parameters | | | | | | |
| Today: March 2 -1 Yesterday March 1- Feb 28 | | PM₂.₅ | PM₁₀ | RH % | WS m/s | WD | T °C Max | T °C Min | SR W/m² | RF mm | Today: March 2 -1 Yesterday March 1-Feb 28 | PM₂.₅ | PM₁₀ | RH % | WS m/s | WD | T °C Max | T °C Min | SR W/m² | RF mm |
| 4 / 97 | Today | 151 | 78 | 60 | 1.9 | ESE | 29.4 | 13.9 | 93 | 0 | Today | 165 | 103 | 54 | 1.4 | N | 27.9 | 14.2 | 130 | 0 |
| 4 / 97 | Yesterday | 107 | 63 | 60 | 2.5 | SE | 29.1 | 12.9 | 99 | 0 | Today | 165 | 103 | 54 | 1.4 | N | 27.9 | 14.2 | 130 | 0 |
| 3 / 34 | Today | 154 | 69 | 64 | 1.9 | ESE | 27.9 | 14.5 | 100 | 0 | | | | | | | | | | |
| 3 / 34 | Yesterday | 134 | 58 | 65 | 2.5 | SE | 25.2 | 13.4 | 96 | 0 | | | | | | | | | | |
| Science Faculty | Today | 154 | 67 | 66 | 1.9 | ESE | 27.3 | 13.9 | 95 | 0 | Yesterday | 151 | 83 | 52 | 2.5 | N | 25.8 | 13.5 | 154 | 0 |
| Science Faculty | Yesterday | 117 | 55 | 65 | 2.5 | SE | 25.2 | 12.8 | 102 | 0 | Yesterday | 151 | 83 | 52 | 2.5 | N | 25.8 | 13.5 | 154 | 0 |

**Views of AQI Research Group:** AQI at Dayalbagh remained better than that Sanjay Place. However, the Pollutant concentrations have increased at Dayalbagh and Sanjay Place compared to yesterday. The increase in pollutant levels may be ascribed to change in Wind Direction, reduced Wind Speed or some specific pollution generating activity at the sites locally.

**Remarks of Revered Chairman-ACE:**

**Received: Wednesday, 2 March 2022, 11:11 AM**

**Wednesday, 2 March 2022, PM**

| Good -G | Moderate- M | Unhealthy for Sensitive Groups- US | Unhealthy for All- | 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 PM₂.₅ 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