# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 30.10.2021
### (BASED ON US-EPA AQI STANDARDS)

Permissible Limits (24 Hour Mean) :  PM$_{10}$ = 150; PM$_{2.5}$ = 35, all units are in µg/m³

| Site Location | Sampling Time (24 hrs) | DAYALBAGH (TIME WEIGHTED AVERAGE DATA) | | | | | | | | | | SANJAY PLACE (ARITHMETIC MEAN DATA) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AQI | | | | Meteorological Parameters @ Dayalbagh | | | | | | AQI | | | | Meteorological Parameters @ Sanjay Place | | | | | |
| | | PM$_{2.5}$ | | PM$_{10}$ | | | | | | | | PM$_{2.5}$ | | PM$_{10}$ | | | | | | | | |
| | | Today Oct 30 – Oct 29 | Yesterday Oct 29 – Oct 28 | Today Oct 30 – Oct 29 | Yesterday Oct 29 – Oct 28 | RH % | WS m/s | WD | T °C | SR W/m² | RF mm | Today Oct 30 – Oct 29 | Yesterday Oct 29 – Oct 28 | Today Oct 30 – Oct 29 | Yesterday Oct 29 – Oct 28 | RH % | WS m/s | WD | T °C | SR W/m² | RF mm |
| 4 / 97 | 09:00 am – 09:00am | 168 UH | 174 UH | 108 US | 118 US | 59 | 1.5 | SSW | 24 | 90 | 0 | | | | | | | | | | |
| 3 / 34 | 09:00 am – 09:00am | 177 UH | 175 UH | 93 M | 100 M | 61 | 1.5 | SSW | 24 | 95 | 0 | 161 UH | 195 UH | 90 M | 130 US | 52 | 0.9 | SSW | 22 | 158 | 0 |
| Science Faculty | 09:00 am – 09:00 am | 171 UH | 180 UH | 92 M | 105 US | 64 | 2.3 | NE | 23 | 73 | 0 | | | | | | | | | | |

**Remarks of GH Today:**

Good- G    Moderate- M    Unhealthy for Sensitive Groups -US    Unhealthy- UH    Very Unhealthy - VUH    Hazardous - H

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