# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.11.2021
### (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 $\mu g/m^3$

| 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 Nov 20 –Nov 19 | Yesterday Nov 19 – Nov 18 | Today Nov 20 – Nov 19 | Yesterday Nov 19 – Nov 18 | RH % | WS m/s | WD | T °C | SR W/m$^2$ | RF mm | Today Nov 20 – Nov 19 | Yesterday Nov 19 – Nov 18 | Today Nov 20 – Nov 19 | Yesterday Nov 19 – Nov 18 | RH % | WS m/s | WD | T °C | SR W/m$^2$ | RF mm |
| 4 / 97 | 09:00 am – 09:00am | 201 VUH | 213 VUH | 108 US | 118 US | 71 | 1.5 | SW | 21 | 47 | 1 | | | | | | | | | | |
| 3 / 34 | 09:00 am – 09:00am | 217 VUH | 229 VUH | 100 M | 74 M | 73 | 1.3 | SW | 21 | 32 | 1 | 190 UH | 290 VUH | 132 US | 218 VUH | 63 | 0.9 | SE | 18.5 | 68 | 1 |
| Science Faculty | 09:00 am – 09:00 am | 263 VUH | 278 VUH | 105 US | 107 US | 75 | 3.7 | NNE | 21 | 39 | 1 | | | | | | | | | | |

Good G  |  Moderate M  |  or Sensitive Groups  US  |  Unhealthy for All  UH  |  Very Unhealthy for All  VUH  |  Hazardous for All  H  |  Hazardous for All  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