**Radhasoami Dayal Ki Daya Radhasoami Sahai**

# AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 5.08.2021

Permissible Limits: PM$_{10}$ = 100; PM$_{2.5}$ = 60, all units are in μg/m³

| Site Location | Sampling Time (24 hrs) | DAYALBAGH (TIME WEIGHTED AVERAGE DATA) | | | | | | | | SANJAY PLACE (ARITHMETIC MEAN DATA) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AQI On The Basis of PM$_{2.5}$ Concentration | | Meteorological Parameters @ Dayalbagh | | | | | | AQI On The Basis of PM$_{2.5}$ Concentration | | Meteorological Parameters @ Sanjay Place | | | | | |
| | | Today Aug 5- Aug 4 | Yesterday Aug 4.- Aug 3 | RH % | WS m/s | WD | T °C | SR W/m² | RF mm | Today Aug 5- Aug 4 | Yesterday Aug 4.- Aug 3 | RH % | WS m/s | WD | T °C | SR W/m² | RF mm |
| 4 / 97 | 12:00 noon – 12:00 noon | 70 Satisfactory | 57 Satisfactory | 84 | 4.1 | ENE | 28 | 92 | 01 | | | | | | | | |
| 3 / 34 | 12:00 noon – 12:00 noon | 50 Good | 42 Good | 84 | 4.1 | ENE | 28 | 86 | 01 | 61 Satisfactory | 53 Satisfactory | 84 | 1.4 | ESE | 30 | 17 | 01 |
| Science Faculty | 12:00 noon – 12:00 noon | 50 Good | 42 Good | 85 | 2.9 | WSW | 28 | 84 | 01 | | | | | | | | |

22 October 2021

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