Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 31.07.2021

Permissible Limits: PM_{10} = 100; $PM_{2.5}$ = 60, all units are in µg/m^3

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 31-30	Yesterday 30-29	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm	Today 31-30	Yesterday 30-29	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm
4 / 97	12:00 noon – 12:00 noon	70 Satisfactory	63 Satisfactory	89	2.5	SE	27	85	59	33 Good	53 Satisfactory	91	2.2	SSW	30	62	90.2
3 / 34	12:00 noon – 12:00 noon	57 Satisfactory	53 Satisfactory	90	2.5	SE	27	77	59								
Science Faculty	12:00 noon – 12:00 noon	57 Satisfactory	53 Satisfactory	91	3.8	WSW	27	80	59								

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