Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.09.2021

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 Sep 16- Sep 15	Yesterday Sep 15- Sep 14	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today Sep 16- Sep 15	Yesterday Sep 15- Sep 14	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	12:00 noon – 12:00 noon	33 Good	50 Good	69	7.1	ENE	29	105	0.5	42 Good	46 Good	63	5.7	WSW	NA	137	0.5
3 / 34	12:00 noon – 12:00 noon	13 Good	29 Good	69	7.1	ENE	29	104	0.5								
Science Faculty	12:00 noon – 12:00 noon	08 Good	25 Good	72	7.1	SSE	29	105	0.5								

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