

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 10.09.2021

Permissible Limits: PM<sub>10</sub> = 100; PM<sub>2.5</sub> = 60, all units are in µg/m<sup>3</sup>

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								SANJAY PLACE (ARITHMETIC MEAN DATA)							
		AQI On The Basis of PM <sub>2.5</sub> Concentration		Meteorological Parameters @ Dayalbagh						AQI On The Basis of PM <sub>2.5</sub> Concentration		Meteorological Parameters @ Sanjay Place					
		Today Sep 10- Sep 9	Yesterday Sep 9- Sep 8	RH %	WS m/s	WD	T °C	SR W/ m <sup>2</sup>	RF mm	Today Sep 10- Sep 9	Yesterday Sep 9- Sep 8	RH %	WS m/s	WD	T °C	SR W/m <sup>2</sup>	RF mm
4 / 97	12:00 noon – 12:00 noon	112 # Moderate	89 Satisfactory	74	3.9	E	31	115	0	91 Satisfactory	74 Satisfactory	68	3.0	S	31	177	0.5
3 / 34	12:00 noon – 12:00 noon	89 Satisfactory	72 Satisfactory	75	3.9	E	31	116	0								
Science Faculty	12:00 noon – 12:00 noon	97 Satisfactory	74 Satisfactory	76	3.4	SSW	31	110	0								

# Construction activity authenticated by Construction Dept., Dayalbagh, in the house located behind Vidyut Nagar weather station @ 4/97, Dayalbagh, Agra.

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<sub>2.5</sub> 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 (PM<sub>2.5</sub>), C<sub>low</sub>=Concentration Breakpoint ≤C, C<sub>high</sub>=Concentration Breakpoint ≥C, I<sub>low</sub>=Index Break point corresponding to C<sub>low</sub>, I<sub>high</sub>=Index Breakpoint corresponding to C<sub>high</sub>

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3 Formula for AQI calculation for a Pollutant -

where, I = Air Quality Index, C=Pollutant Concentration (PM2.5), C<sub>low</sub>=Concentration Breakpoint ≤C, C<sub>high</sub>=Concentration Breakpoint ≥C, I<sub>low</sub>=Index Break point corresponding to C<sub>low</sub>, I<sub>high</sub>=Index Breakpoint corresponding to C<sub>high</sub>

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