

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 24.09.2021

Permissible Limits (24h Mean) : PM<sub>10</sub> = 100; PM<sub>2.5</sub> = 60 (NAAQS, India), all units are in µg/m<sup>3</sup>

PM<sub>10</sub> = 45; PM<sub>2.5</sub> = 15 (WHO, 2021), 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				Meteorological Parameters @ Dayalbagh						AQI				Meteorological Parameters @ Sanjay Place					
		PM <sub>2.5</sub>		PM <sub>10</sub>								PM <sub>2.5</sub>		PM <sub>10</sub>							
		Today Sep 24- Sep 23	Yesterday Sep 23- Sep 22	Today Sep 24- Sep 23	Yesterday Sep 23- Sep 22	RH %	WS m/s	WD	T °C	SR W/ m <sup>2</sup>	RF mm	Today Sep 24- Sep 23	Yesterday Sep 23- Sep 22	Today Sep 24- Sep 23	Yesterday Sep 23- Sep 22	RH %	WS m/s	WD	T °C	SR W/m <sup>2</sup>	RF mm
4 / 97	12:00 noon – 12:00 noon	59 S	59 S	30 G	24 G	78	3.3	ENE	30	129	0	80 S	68 S	52 S	44 G	70	1.6	SE	NA	193	0
3 / 34	12:00 noon – 12:00 noon	66 S	61 S	24 G	23 G	79	3.3	ENE	30	120	0										
Scienc e Faculty	12:00 noon – 12:00 noon	NA	NA	NA	NA	NA	NA	NA	NA	NA	0										

Good- G

Satisfactory - S

Moderate- M

Poor- P

Very Poor- VP

Severe - Sv

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 (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>