

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 26.09.2021
(BASED ON US-EPA AQI STANDARDS)

Permissible Limits (24h Mean) : PM₁₀ = 100; PM_{2.5} = 60 (NAAQS, India), all units are in µg/m³

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 _{2.5}		PM ₁₀								PM _{2.5}		PM ₁₀							
		Today Sep 26- Sep 25	Yesterday Sep 25- Sep 24	Today Sep 26- Sep 25	Yesterday Sep 25- Sep 24	RH %	WS m/s	WD	T °C	SR W/ m ²	RF mm	Today Sep 26- Sep 25	Yesterday Sep 25- Sep 24	Today Sep 26- Sep 25	Yesterday Sep 25- Sep 24	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	12:00 noon – 12:00 noon	87 S	95 S	45 G	53 S	86	2.9	NE	28	84	4	76 S	91 S	45 G	56 S	79	1.7	SW	NA	114	2.5
3 / 34	12:00 noon – 12:00 noon	80 S	84 S	37 G	42 G	87	2.9	NE	28	79	4										
Science Faculty	12:00 noon – 12:00 noon	80 S	NA	40 G	NA	91	1.9	SW	27	46	4										

Data for Science Faculty is average from 6:00 pm Sept. 25th to 12:00 noon Sept. 26th, 2021

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_{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), C_{low}=Concentration Breakpoint ≤C, C_{high}=Concentration Breakpoint ≥C, I_{low}=Index Break point corresponding to C_{low}, I_{high}=Index Breakpoint corresponding to C_{high}

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 26.09.2021

(Based on WHO 2021 Guidelines)

Permissible Limits: (WHO, 2021) (24h Mean) : PM₁₀ = 45; PM_{2.5} = 15, all units are in µg/m³

Sampling Site and Height	Duration of Sampling	DAYALBAGH@ 40 feet				SANJAY PLACE @ 40 feet			
		PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³] @ 40 feet	
		Today Sep 26- Sep 25	Yesterday Sep 25- Sep 24	Today Sep 26- Sep 25	Yesterday Sep 25- Sep 24	Today Sep 26 - Sep 25	Yesterday Sep 25 - Sep 24	Today Sep 26 - Sep 25	Yesterday Sep 25 - Sep 24
4/97	12:00-12:00 noon	✓+49↑	59	✓+29↑	33	+49↑	65	+24↑	31↓
3/34	12:00-12:00 noon	✓+40↑	45	✓+26	28				
Science Faculty	12:00-12:00 noon	✓+43	NA	✓+26	NA				

Remarks of GH Today:

Received - Sunday, 26 September 2021, 1:40 PM

Sunday, 26 September 2021, 3:35 PM

Concentration Within WHO, 2021 Limits

Concentration Beyond WHO, 2021 Limits