AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.09.2021
(BASED ON US-EPA AQI STANDARDS)

Permissible Limits (24h Mean) : PM_{10} = 100; $PM_{2.5}$ = 60 (NAAQS, India), all units are in µg/m^3

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 27-Sep 26	Yesterday Sep 26-Sep 25	Today Sep 27-Sep 26	Yesterday Sep 26-Sep 25	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm	Today Sep 27-Sep 26	Yesterday Sep 26-Sep 25	Today Sep 27-Sep 26	Yesterday Sep 26-Sep 25	RH %	WS m/s	WD	T °C	SR W/m^2	RF mm
4 / 97	12:00 noon – 12:00 noon	78 S	87 S	41 G	45 G	83	2.9	E	29	120	01										
3 / 34	12:00 noon – 12:00 noon	78 S	80 S	34 G	37 G	84	3.0	E	29	110	01	80 S	76 S	38 G	45 G	76	1.1	SW	NA	170	2.4
Science Faculty	12:00 noon – 12:00 noon	78 S	80 S	34 G	40 G	84	2.4	SW	29	118	01										

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), Clow=Concentration Breakpoint ≤C, Chigh=Concentration Breakpoint ≥C, Ilow=Index Break point corresponding to Clow, Ihigh=Index Breakpoint corresponding to Chigh

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.09.2021

(Based on WHO 2021 Guidelines)

Permissible Limits: (WHO, 2021) (24h Mean) : PM_{10} = 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/m³]		$PM_{2.5}$ [µg/m³]		PM_{10} [µg/m³]		$PM_{2.5}$ [µg/m³] @ 40 feet	
		Today **Sep 27- Sep 26**	Yesterday **Sep 26- Sep 25**	Today **Sep 27- Sep 26**	Yesterday **Sep 26- Sep 25**	Today **Sep 27- Sep 26**	Yesterday **Sep 26- Sep 25**	Today **Sep 27- Sep 26**	Yesterday **Sep 26- Sep 25**
4/97	12:00-12:00 noon	✓+44↑	49	✓+25	29	+41↑	49	+26	24
3/34	12:00-12:00 noon	✓+37↑	40	✓+25	26				
Science Faculty	12:00-12:00 noon	✓+37↑	43	✓+25	26				

Concentration Within WHO, 2021 Limits | Concentration Beyond WHO, 2021 Limits