AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 28.09.2021

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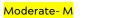
Permissible Limits (24h Mean)

Indian NAAQS : $PM_{10} = 100$; $PM_{2.5} = 60$, all units are in $\mu g/m^3$ US EPA NAAQS: $PM_{10} = 150$; $PM_{2.5} = 35$ all units are in $\mu g/m^3$

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									SANJAY PLACE (ARITHMETIC MEAN DATA)										
			Meteorological Parameters @				AQI				Meteorological Parameters @										
		PN	A12.5	PM10		Dayalbagh				PM2.5		PM 10		Sanjay Place							
		Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26	Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26	RH %	WS m/s	WD	T °C	SR W/ m ²	RF mm	Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26	Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26	RH %	WS m/s	WD	T °C	SR W/m ²	RF mm
4 / 97	12:00 noon 	57 S	78 S	26 G	41 G	77	3.1	ENE	30	124	02										
3 / 34	12:00 noon 	57 S	78 S	24 G	34 G	78	3.1	ENE	30	106	02	78 S	80 S	52 S	38 G	68	1.5	SSW	NA	182	0
Science Faculty	12:00 noon 	59 S	78 S	27 G	34 G	81	2.0	S	29	129	02										









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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 -

$$I = \frac{I_{\rm high} - I_{\rm low}}{C_{\rm high} - C_{\rm low}} * (C - C_{\rm low}) + I_{\rm low}$$

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: 28.09.2021 (Based on WHO 2021 Guidelines)

Permissible Limits: (WHO, 2021) (24h Mean) : PM_{10} = 45; $PM_{2.5}$ = 15, all units are in μ g/m³

Sampling Site and Height			DAYALBAG	H@ 40 feet		SANJAY PLACE @ 40 feet					
	Duration of	PM10[µ	ıg/m³]	PM _{2.5} [ug/m³]	PM10[µg/m³]	PM _{2.5} [μg/m³] @ 40 feet			
	Sampling	Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26	Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26	Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26	Today Sep 28- Sep 27	Yesterday Sep 27- Sep 26		
4/97	12:00-12:00 noon	√+28 ↑	44	√ +15↑	25			+25	26		
3/34	12:00-12:00 noon	√ +26↑	37	√ +15↑	25	+57↓	41				
Science Faculty	12:00-12:00 noon	√+29 ↑	37	√ +16↑	25						