AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 27.9.2022

(BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean): PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m^3 Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

Today: 26-09-2022 to 27-09-2022 from 9:00 a.m. to 9:00 a.m. **Yesterday:** 25-09-2022 to 26-09-2022 from 9:00 a.m. to 9:00 a.m.

LOCATION	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)											SANJAY PLACE (ARITHMETIC MEAN DATA)										
	AQI				Meteorological Parameters							AQI				Meteorological Parameters						
	$PM_{2.5}$		PM_{10}					T °C				$PM_{2.5}$		PM_{10}					T °C			
	Today	Yesterday	Today	Yesterday	RH %	WS m/s	WD	Max	Min	SR W/m^2	RF mm	Today	Yesterday	Today	Yesterday	RH %	WS m/s	WD	Max	Min	SR W/m^2	RF mm
4 / 97	80	55	39	25	79	1.9	E	34.2	25.4	161	0	91	89	75	67	72	0.9	SE	34.7	27.3	162	0
3 / 34	93	68	38	27	79	1.9	E	34.2	25.4	161	0											
Science Faculty	99	72	43	24	79	1.9	E	34.2	25.4	161	0											

Views of AQI Research Group: Air quality Index values have enhanced due to stable meteorological conditions (low Wind Speed and relatively constant Relative Humidity) and a change in Wind Direction.

$PM_{2.5}$ values for Sanjay Place were available only till 6:00 pm yesterday.

Perused By Way of Information Only,
Subject To Legalise/Legalese/"Laws of the Land".

Tuesday, 27-09-2022, 04:09 PM
Received, Tuesday, 27-09-2022, 03:02 PM

Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy for All	Very Unhealthy for All	Hazardous for All	Hazardous for All
0 - 50	51 - 100	101 - 150	151 - 200	201 - 300	301 - 400	401 - 500

NOTE: 1 A continuing 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 ($PM_{2.5}$); 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}; *Multiplication Sign

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