Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 18.8.2022

(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)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: August 18 – 17 Yesterday August 17 – 16	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: August 18 – 17 Yesterday August 17 – 16	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	08	06	73	1.3	E	35.5	26.7	182	0	Today	42	21	71	2.4	S	35	28	176	0
	Yesterday	13	06	82	2.4	SE	29.4	25.3	99	0.5										
3 / 34	Today	25	08	73	1.3	E	35.5	26.7	182	0										
	Yesterday	25	08	82	2.4	SE	29.4	25.3	99	0.5	Yesterday	42	17	76	4.2	S	30.5	27.6	178	1.0
Science Faculty	Today	21	06	73	1.3	E	35.5	26.7	182	0										
	Yesterday	21	06	82	2.4	SE	29.4	25.3	99	0.5										

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

Views of AQI Research Group: In comparison to yesterday, there is a marginal change in the concentrations of both $PM_{2.5}$ and PM_{10} at all locations of Dayalbagh. The Air Quality Index w.r.t. both $PM_{2.5}$ and PM_{10} remains in the *Good* category at all three locations of Dayalbagh.

Data for Sanjay Place was not available from 3:00 to 6:00 pm on 17.8.2022. On the basis of available data, the Air Quality Index w.r.t $PM_{2.5}$ and PM_{10} is in the *Good* category.

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[illegible] 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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