Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.7.2022 (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 $\mu g/m^3$ Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date			D	AYAI	LBAG	H				Date	SANJAY PLACE								
	Today:		(TIME	RAGE	DAT	'A)		Today:	(ARITHMETIC MEAN DATA)											
		Air Qua	ality Index	Meteorological Parameters							Today:	AQI		Meteorological Parameters						
	July 16 – 15 Yesterday July 15 – 14	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	°C		SR RF W/m² mm	DE	July 16 – 15 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m²	RF
							Max	Min	VV/111	mm	July 15 – 14						Max	Min	VV/III II	mm
4/97	Today	21	14	56	4.8	SSE	39.0	26.2	205	12.5	Today	63	57	60	3.9	WNW	41.8	27.5	233	11
	Yesterday	21	16	62	5.6	S	39.7	30.9	237	0										
3 / 34	Today	33	11	57	4.9	SSE	38.2	26.3	205	12.5										
	Yesterday	42	13	63	5.6	S	38.6	30.7	237	0										i
Science	Today	33	10	57	4.7	SSE	38.7	26.5	205	12.5	Yesterday	72	64	53	4.0	SSE	42	32.4	238	0
Faculty	Yesterday	46	13	63	5.6	S	39.1	30.6	237	0										

Good 0 - 50

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

Views of AQI Research Group: In comparison to yesterday, the concentrations of both PM_{2.5} and PM₁₀ have decreased at all three locations of Dayalbagh. This decrease may probably be due to decrease in Relative Humidity and wash-out of pollutants due to rain in the night. The Air Quality Index w.r.t. both PM_{2.5} and PM₁₀ is in the *Good* category at all the three locations of Dayalbagh.

At Sanjay Place also, the concentrations of $PM_{2.5}$ and PM_{10} have decreased. The Air Quality Index still remains in the *Moderate* category w.r.t. both $PM_{2.5}$ and PM_{10} .

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

Saturday, 16-07-2022, 01:51 PM Received, Saturday, 16-07-2022, 12:58 PM

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 -

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

where: I = Air Quality Index; C = Pollutant Concentration (PM_{2.5}); C_{low} = Concentration Breakpoint $\leq C$; C_{high} = Concentration Breakpoint $\geq C$; C_{high} = Index Break point corresponding to C_{low} ; C_{low} ; C_{low} ; C_{low} = Index Breakpoint corresponding to C_{high} ; *Multiplication Sign