Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.5.2022

(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)

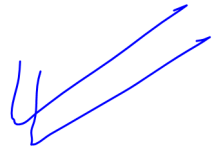
	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		Air Quality Index		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: May 16 – 15 Yesterday May 15 – 14	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: May 16 – 15 Yesterday May 15 – 14	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	38	56	25	3.9	SSE	48.2	34.6	155	0	Today	112	123	27	3.8	SE	49.9	36.5	195	0
	Yesterday	80	74	33	3.2	S	46.7	32.5	167	0										
3 / 34	Today	50	34	26	3.9	SSE	47.2	34.4	154	0										
	Yesterday	99	55	34	3.3	S	46.0	32.0	182	0	Yesterday	166	157	31	2.2	E	49.0	34.7	206	0
Science Faculty	Today	46	31	26	4.0	SSE	46.5	34.3	156	0										
	Yesterday	97	56	34	3.2	S	46.2	31.9	168	0										

Views of AQI Research Group: Both $PM_{2.5}$ and PM_{10} levels have significantly decreased in comparison to yesterday at all the sites. The levels of $PM_{2.5}$ at Vidyut Nagar, Prem Nagar and Science Faculty are within the WHO limits while PM_{10} levels at Prem Nagar and Science Faculty lie within the WHO standards. This might probably be associated to increase in Wind Speed, decrease in Relative Humidity and change in Wind Direction. Air Quality has improved to the *Good* category at all the Dayalbagh sites w.r.t to $PM_{2.5}$ while w.r.t PM_{10} it is in the *Good* category at Prem Nagar and Science Faculty. AQI at Sanjay Place w.r.t both $PM_{2.5}$ and PM_{10} is in the *Unhealthy for Sensitive* and Moderate at Vidyut Nagar (apparetly, due to taking up pending construction activity by SNC) Groups.

Remarks of Revered Chairman-ACE:

Received: Monday, 16-05-2022, 12:23 PM

Perused: Subject to Legalese / Legalise / "Laws of the Land"



Monday, 16-05-2022, 01:09 PM

Good -G | Moderate- M | Unhealthy for Sensitive Groups- UHS | Unhealthy for All- UHA | Very Unhealthy for All-VUHA | Hazardous for All- HZA | Hazardous for All-HZA

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

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