Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 21.5.2022 (BASED ON US-EPA AOI STANDARDS AND THE DAYALBAGH AOI 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											SANJAY PLACE								
	Today:		(TIME	RAGE	DAT	'A)		Today:	(ARITHMETIC MEAN DATA)											
		Air Quality Index		Meteorological Parameters							Today.	AQI		Meteorological Parameters						
	May 21 – 20	PM2.5	PM10	RH %	WS m/s	WD	r	г	SR	SR RF	May 21 – 20						т		SR	RF
	Yesterday						T °C			Kľ	Yesterday	PM2.5	PM ₁₀	RH %	WS m/s	WD	°C			ĸŕ
	May 20 – 19						Max	Min	W/m ²	mm	May 20 – 19			/0	111/5		Max	Min	W/m ²	mm
4 / 97	Today	63	79	32	3.1	SSE	46.9	33.1	154	0	Today	156	185	32	3.1	E	48.1	34.5	190	0
	Yesterday	68	79	32	2.6	SSE	46.7	33.1	163	0										
3 / 34	Today	70	53	33	3.1	SSE	46.6	32.4	167	0										
	Yesterday	78	55	33	2.5	SSE	45.6	33.1	175	0										
Science	Today	68	54	33	3.1	SSE	45.9	32.0	162	0	Yesterday	160	173	31	2.2	SE	48.2	35.4	203	0
Faculty	Yesterday	76	55	34	2.6	SSE	44.7	32.1	171	0										

Views of AQI Research Group: PM2.5 concentration have marginally decreased in comparison to yesterday at all the Dayalbagh sites while PM10 concentration has decreased at Prem Nagar and Science Faculty but remained same at Vidyut Nagar. There is also a slight variation in Wind Speed and Temperature, no change in Wind Direction, Relative Humidity has remained nearly constant, Solar Radiation has decreased. At Sanjay Place PM_{2.5} concentration has decreased marginally while PM10 concentration has increased. There is also a slight variation in Relative Humidity, Wind Speed and Temperature while Wind Direction has changed from SE to E and Solar Radiation has decreased. Air Quality Index at all the Dayalbagh sites w.r.t both PM2.5 and PM10 is in the Moderate category while Air Quality Index at Sanjay Place w.r.t both PM_{2.5} and PM₁₀ is in the Unhealthy for All category.

Remarks of Revered Chairman-ACE:

Good - G

Moderate - M **Unhealthy for Sensitive Groups - UHS**

Unhealthy for All - UHA

Very Unhealthy for All - VUHA

Received: Saturday, 21-05-2022, 12:16 PM

Subject to Legalese / Legalise 12" Laws of the Land"

Hazardous for All - HZA

Perused By Way of Information Only,

Saturday, 21-05-2022, 01:36 PM

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 -

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

where, I = Air Quality Index, C=Pollutant Concentration (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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