Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 2.6.2022 (BASED ON WHO GUIDELINES - 2021)

Permissible Limits (24 Hour Mean): $PM_{10} = 45$; $PM_{2.5} = 15$, all units are in $\mu g/m^3$

	Date Today: June 2 – 1 Yesterday June 1 – May 31		(T)	IME WE	DAYAL IGHTED		GE DA	TA)			Date	SANJAY PLACE (ARITHMETIC MEAN DATA)									
			ntration /m³)		Me	teorolog	ical Par	ameter	'S		Today : June 2 – 1	Concentration (µg/m³)		Meteorological Parameters							
			PM ₁₀	RH %	WS m/s	WD	T°C				Yesterday						T °C		SR	RF	
		PM _{2.5}					Max	Min	SR W/m²	RF mm	June 1 – May 31	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	Max	Min	2	mm	
4 / 97	Today	14↑↑	89↑	36	2.9	SSE	45.2	30.4	168	0		57↑	247↑	33	2.6	SSE	47	33.2	229	0	
	Yesterday	27	145	47	3.4	SE	41.6	29.0	153	0	Today										
3/34	Today	18 🕇 🕇	51↑	36	2.9	SSE	44.6	30.2	174	0											
3/34	Yesterday	35	84	50	3.4	SE	41.4	28.4	169	0		88	358	42	2.7	SE	43.7	32	216	0	
Science Faculty	Today	15↑↑	50↑	36	2.9	SSE	44.6	30.2	173	0	Yesterday										
	Yesterday	35	88	52	3.4	SE	40.6	27.7	162	0											

Within WHO 2021 Limits

Beyond WHO 2021 Limits

Views of AQI Research Group: In comparison to yesterday, concentrations of both $PM_{2.5}$ and PM_{10} have decreased significantly at all locations of Dayalbagh. $PM_{2.5}$ concentrations are within the WHO permissible limits at Vidyut Nagar and Science Faculty and marginally beyond the WHO permissible limits at Prem Nagar. PM_{10} concentrations are beyond the WHO permissible limits at all the three locations.

The concentrations of $PM_{2.5}$ and PM_{10} at Sanjay Place have also decreased as compared to yesterday, but still remain beyond the WHO permissible limits.

All defaulters of WHO Norms should take immediate corrective actions to achieve requisite compliance of WHO 2021 Limits within a week or two at the most. (Further details may be acquired by contacting P.B. Arsh Dhir in the matter).

Since WHO (World Health Organization) Guidelines only provide a single value for permissible $PM_{2.5}$ and PM_{10} pollutant concentrations and do not provide concentration bands for the different Air Quality Index (AQI) categories ranging from **Good** to **Hazardous for All**, as does the US EPA (United States Environmental Protection Agency), the Report 2 annexed based on US EPA norms may be referred to, for Air Quality Index (AQI) categories.

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 2.6.2022 (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									
	Todayı		(TIME	WEIG	HTED	AVER	RAGE	DAT	'A)		Todow		(ARITHMETIC MEAN DATA)								
	Today:	Air Qua	lity Index	Meteorological Parameters							Today:	AQI Meteorological Parameters									
	June 2 – 1	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR F		June 2 – 1	PM2.5	PM ₁₀	RH %	WS	WD	T °C		SR	RF	
	Yesterday									RF	Yesterday										
	June 1 – May 31						Max	Min	W/m ²	mm	June 1 – May 31			70	m/s		Max	Min	W/m ² n	mm	
4/97 3/34	Today	55	68	36	2.9	SSE	45.2	30.4	168	0	Today	152	147	33	2.6	SSE	47	33.2	229	0	
	Yesterday	82	96	47	3.4	SE	41.6	29.0	153	0											
	Today	63	47	36	2.9	SSE	44.6	30.2	174	0											
	Yesterday	99	65	50	3.4	SE	41.4	28.4	169	0											
Science	Today	57	46	36	2.9	SSE	44.6	30.2	173	0	0 Yesterday	168	205	42	2.7	SE	43.7	32	216	0	
Faculty	Yesterday	99	67	52	3.4	SE	40.6	27.7	162	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, concentrations of both $PM_{2.5}$ and PM_{10} have decreased significantly at all locations of Dayalbagh. The Air Quality Index w.r.t. $PM_{2.5}$ is in the *Moderate* category at all locations of Dayalbagh while w.r.t. PM_{10} it has improved from *Moderate* to *Good* category at Prem Nagar and Science Faculty and remains in the *Moderate* category at Vidyut Nagar.

 $PM_{2.5}$ and PM_{10} concentrations at Sanjay Place have also decreased significantly compared to yesterday. The Air Quality Index is in the *Unhealthy for All* category w.r.t. $PM_{2.5}$ and has improved from *Very Unhealthy for All* to *Very Unhealthy for Sensitive Groups* category w.r.t. PM_{10} .

All defaulters of WHO Norms should take immediate corrective actions to achieve requisite compliance of WHO 2021 Limits within a week or two at the most. (Further details may be acquired by contacting P.B. Arsh Dhir in the matter).

Perused By Way of Information Only,

Subject To Legalise/Legalese/"Laws of the Land".

Friday, 03-06-2022, 03:58 AM Received, Thursday, 02-06-2022, 12:35 PM

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