Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 13.5.2022 (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 $\mu g/m^3$ Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date		(TIME	H RAGE	DAT	'A)		Date	Date SANJAY PLACE (ARITHMETIC MEAN DATA)											
	Today:	Air Qua	ality Index	Meteorological Parameters						Today:	AQI		Meteorological Parameters							
	May 13 – 12 Yesterday May 12 – 11	PM _{2.5}	PM_{10}	RH %	WS m/s	WD	T °C		SR	RF	May 13 – 12 Yesterday	PM _{2.5}	PM ₁₀	RH %	WS	WD	T °C		SR	RF
							Max	Min	W/m ²	mm	May 12 – 11			% 0	m/s		Max	Min	W/m ²	mm
4 / 97	Today	70	45	50	2.9	SE	44.9	29.3	139	0	Today	132	91	46	3.1	N	45.0	32.1	187	0
	Yesterday	66	38	51	3.0	N	42.5	30.8	137	0										
3 / 34	Today	91	37	50	2.9	SE	44.6	29.2	163	0										
	Yesterday	87	33	52	3.0	N	42.9	30.6	168	0										
Science	Today	93	39	502	.93	SE	44.6	29.3	156	0	Yesterday	132	92	44	2.9	N	43.0	31.7	187	0
Faculty	Yesterday	89	34	52	3.0	N	43.9	30.7	159	0							į			

Views of AQI Research Group: Both $PM_{2.5}$ and PM_{10} concentrations have marginally changed at the Dayalbagh sites, probably attributable to change in Wind Direction. AQI w.r.t to $PM_{2.5}$ at the three Dayalbagh sites is in the *Moderate* category while w.r.t to PM_{10} all the three locations are in the *Good* category. Air Quality at Dayalbagh is better than Sanjay Place where AQI w.r.t $PM_{2.5}$ is in the *Unhealthy for Sensitive Groups* category and in the *Moderate* Category w.r.t PM_{10} .

Remarks of Revered Chairman-ACE:

Received: Friday, 13-05-2022, 12:11 PM

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

Friday, 13-05-2022, 02:16 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 -

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

 $where, I = Air\ Quality\ Index,\ C=Pollutant\ Concentration\ (PM2.5),\ Clow=Concentration\ Breakpoint\ \le C,\ Chigh=Concentration\ Breakpoint\ \ge C,\ Ilow=Index\ Breakpoint\ corresponding\ to\ Clow,\ Ihigh=Index\ Breakpoint\ corresponding\ to\ Chigh$