Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 22.2.2022 (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 DAYALBAGH											SANJAY PLACE								
	Today:		(TIME	DAT	'A)		Todaw	(ARITHMETIC MEAN DATA)												
		A	QI	Meteorological Parameters						Today:	AQI Meteorological Parameters									
	Feb 22 – 21 Yesterday	PM2.5	PM ₁₀	RH %	WS m/s	WD		r l			Feb 22 – 21	PM2.5	PM ₁₀	RH	ws		T °C		SR	RF
							°C		SR	RF	Yesterday					WD				
	Feb 21 - 20						Max	Min	W/m ²	mm	Feb 21 - 20			70	m/s		Max	Min	W/m ² m	mm
4 / 97	Today	112	72	46	2.7	NNE	31.4	15.6	88	0	Today	155	112	44	2.4	w	28.9	14.4	144	0
	Yesterday	132	69	59	3.5	SE	28.9	14.0	86	0										
3 / 34	Today	129	59	49	2.7	NNE	28.7	15.4	107	0										
	Yesterday	154	67	63	3.5	SE	26.1	14.0	99	0										
Science Faculty	Today	139	64	49	2.7	NNE	27.7	15.7	90	0	Yesterday	107	106	53	2.9	NE	27	13.8	135	0
	Yesterday	154	69	66	3.5	SE	25.5	13.0	79	0										

Views of AQI Research Group: AQI at Dayalbagh for both Particulate Pollutants is better than that at Sanjay Place. During the winters the Relative Humidity (RH) of Dayalbagh remains significantly higher than that at Sanjay Place, sometimes leading to comparatively higher AQI at Dayalbagh. As winters are receding now, the difference between the RH of Dayalbagh sites Vs Sanjay Place is narrowing down. It has been observed that when the gap in RH is narrow, the AQI of Dayalbagh is almost every time better than that at Sanjay Place.



Remarks of Revered Chairman-ACE:

Moderate- M



Unhealthy for All-



Hazardous for All- HZ

Hazardous for All-HZ

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 PM2.5 concentration readings are fed in USEPA online calculator for AQI calculation 3 Formula for AQI calculation for a Pollutant -

Good -G

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

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