Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 3.3.2022

(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)								
		AQI		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: March 3 - 2 Yesterday March 2 - 1	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: March 3 - 2 Yesterday March 2 - 1	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR* W/m^2	RF mm
4 / 97	Today	160	96	59	2.1	NE	31.7	15.7	106	0	Today	171	118	53	1.4	N	30.0	16.6	146	0
	Yesterday	151	78	60	1.9	ESE	29.4	13.9	93	0										
3 / 34	Today	164	82	62	2.1	NE	29.4	15.8	107	0										
	Yesterday	154	69	64	1.9	ESE	27.9	14.5	100	0										
Science Faculty	Today	162	82	65	2.1	NE	29.7	15.5	102	0	Yesterday	165	103	54	1.4	N	27.9	14.2	130	0
	Yesterday	154	67	66	1.9	ESE	27.3	13.9	95	0										

Remarks of Revered Chairman-ACE: * Solar radiation appears to be predominantly responsible for increase in AQI of both 'Sub-atomic particle sizes'.

Received: Thursday, 3 March 2022, 10:34 AM

Thursday, 3 March 2022, 4:30 PM

Good -G | Moderate- M | Unhealthy for Sensitive Groups- US | Unhealthy for All- | Very Unhealthy for All-VUH | 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 $PM_{2.5}$ 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