Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 15.2.2022

(BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

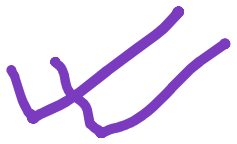
Permissible Limits (24 Hour Mean) : PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m^3 | Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
		AQI		Meteorological Parameters								AQI		Meteorological Parameters						
	Today: Feb 15 – 14 / Yesterday Feb 14 - 13	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm	Today: Feb 15 – 14 / Yesterday Feb 14 - 13	$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	157	92	58	1.7	SSE	28.9	13.6	93	0	Today	127	113	52	0.9	SSE	26.9	14	130	0
	Yesterday	156	92	59	1.6	SSE	28.8	13.3	86	0										
3 / 34*	Today	162	84	61	1.7	SSE	27.6	12.4	98	0										
	Yesterday	149	89	62	1.6	SSE	26.8	12.6	99	0										
Science Faculty	Today	165	85	62	1.7	SSE	27.3	12.4	74	0	Yesterday	149	119	54	0.8	SE	26	12.4	133	0
	Yesterday	164	85	63	1.7	SSE	26.7	12.2	75	0										

Views of AQI Research Group: The AQI of both Particulate Matter remained stagnant or had mild movement across all four locations reported above. Even the Meteorological Parameters remained largely unchanged.

Remarks of Revered Chairman-ACE: * Recommended as continuing pursuit of innovative / model / original / inspirational research ideas.

Received: Tuesday, 15 February 2022, 11:44 AM



Tuesday, 15 February 2022,

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