

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 7.2.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean) : PM<sub>10</sub> = 150; PM<sub>2.5</sub> = 35, all units are in µg/m<sup>3</sup> | 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						
		PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm		PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm
Max	Min						Max	Min												
4 / 97	Today	163	125	73	1.8	SSE	24.5	9.8	78	0	Today	157	124	68	0.8	SSE	24.4	9.4	116	0
	Yesterday	167	90	78	1.7	SE	23.0	9.4	80	0		Yesterday	151	106	75	1.4	E	19.2	7.1	109
3 / 34	Today	161	128	75	1.8	SSE	24.3	9.4	87	0	Yesterday	151	106	75	1.4	E	19.2	7.1	109	0
	Yesterday	154	93	81	1.9	SE	22.7	9.2	79	0		Yesterday	151	106	75	1.4	E	19.2	7.1	109
Science Faculty	Today	158	118	77	1.7	W	23.9	9.8	65	0	Yesterday	151	106	75	1.4	E	19.2	7.1	109	0
	Yesterday	168	91	85	1.5	SSW	19.8	8.9	65	0		Yesterday	151	106	75	1.4	E	19.2	7.1	109

**Views of AQI Research Group:** Science Faculty had the lowest AQI across four locations. PM10.0 saw sharper rise across locations. Change of Wind Direction seems to be the primary cause for the changes in AQI in conjunction with staging of Mini-Sports and Illumination on behalf of DEI (Deemed to be University).

Received: Monday, 7 February 2022, 11:05 AM

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Remarks of Revered Chairman-ACE:

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<sub>2.5</sub> 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), C<sub>low</sub>=Concentration Breakpoint ≤C, C<sub>high</sub>=Concentration Breakpoint ≥C, I<sub>low</sub>=Index Break point corresponding to C<sub>low</sub>, I<sub>high</sub>=Index Breakpoint corresponding to C<sub>high</sub>