

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 21.2.2022 (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)

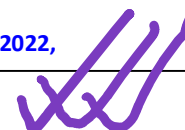
Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)										Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
	AQI		Meteorological Parameters									AQI		Meteorological Parameters						
	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	PM <sub>2.5</sub>		PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	
Max						Min	Max				Min									
Today: Feb 21 – 20											Today: Feb 21 – 20									
	Yesterday Feb 20 - 19											Yesterday Feb 20 - 19								
4 / 97		Today	132	69	59	3.5	SE	28.9	14.0	86	0		Today	107	106	53	2.9	NE	27	13.8
	Yesterday	129	66	59	3.0	SE	30.1	14.3	94	0										
3 / 34	Today	154	67	63	3.5	SE	26.1	14.0	99	0	Yesterday	93	89	51	3.0	NNE	27.7	13.7	133	0
	Yesterday	152	62	61	2.9	SE	27.6	14.6	102	0										
Science Faculty	Today	154	69	66	3.5	SE	25.5	13.0	79	0	Yesterday									
	Yesterday	156	68	63	3.0	SE	26.8	14.2	78	0										

**Views of AQI Research Group:** The PM10.0 AQI of Dayalbagh remained better than that at Sanjay Place. At Dayalbagh, there was negligible change in AQI over yesterday. Sanjay Place recorded bigger change (increase) in AQI for both Particulate Pollutants. The small increase in AQI can be attributed to mild drop in Temperature and consequently slight increase in Relative Humidity.

**Remarks of Revered Chairman-ACE:** Further, High-end Research is called for, particularly by DEI (Deemed to be University) to avail of this Glorious-Transformation of the Rare-Challenges into Promising-Opportunities.

Received: Monday, 21 February 2022, 11:32 AM

Monday, 21 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<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>