

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.8.2022 (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)									
	Today:	Air Quality Index			Meteorological Parameters						Today:	AQI			Meteorological Parameters						
	August 20 – 19										August 20 – 19										
	Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	
	August 19 – 18						Max	Min									Max	Min			
4 / 97	Today	25	13	76	1.1	S	37.3	26.3	151	6.5	Today	59	39	68	2.7	SSE	37.4	29.8	197	01	
	Yesterday	25	15	70	1.3	NNE	35.1	27.1	173	0											
3 / 34	Today	42	15	76	1.1	S	37.3	26.3	151	6.5	Yesterday	55	35	69	3.1	NNE	34.3	28.1	189	0	
	Yesterday	42	15	70	1.3	NNE	35.1	27.1	173	0											
Science Faculty	Today	46	15	76	1.1	S	37.3	26.3	151	6.5											
	Yesterday	33	13	70	1.3	NNE	35.1	27.1	173	0											

Good  
0 - 50

Moderate  
51 - 100

Unhealthy for Sensitive Groups  
101 - 150

Unhealthy for All  
151 - 200

Very Unhealthy for All  
201 - 300

Hazardous for All  
301 - 400

Hazardous for All  
401 - 500

**Views of AQI Research Group:** In comparison to yesterday, concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have marginally changed at Vidyut Nagar and Science Faculty and remained same at Prem Nagar. The Air Quality Index w.r.t. both PM<sub>2.5</sub> and PM<sub>10</sub> remains in the *Good* category at all three locations of Dayalbagh.

At Sanjay Place also, the concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have increased. The Air Quality Index w.r.t. PM<sub>2.5</sub> remains in the *Moderate* category, while w.r.t. PM<sub>10</sub> it remains in the *Good* category.

concentration readings are fed in USEPA online calculator for AQI calculation. With UPPCB Sanjay Place Weather Station readings, their PM<sub>2.5</sub>

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 (PM<sub>2.5</sub>); 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>; \*Multiplication Sign