

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 14.8.2022 (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)									
		Air Quality Index		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: August 14 – 13										Today: August 14 – 13									
	Yesterday August 13 – 12										Yesterday August 13 – 12									
4 / 97	Today	25	10	76	0.8	ENE	38.0	26.9	144	2.0	Today	59	25	73	1.3	NE	36.5	29.1	152	0.5
	Yesterday	38	14	76	1.8	SE	32.0	26.6	115	0.5										
3 / 34	Today	42	13	76	0.8	ENE	38.0	26.9	144	2.0										
	Yesterday	50	18	76	1.8	SE	32.0	26.6	115	0.5	Yesterday	NA	NA	NA	NA	NA	NA	NA	NA	NA
Science Faculty	Today	33	10	76	0.8	ENE	38.0	26.9	144	2.0										
	Yesterday	50	17	76	1.8	SE	32.0	26.6	115	0.5										

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
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**Views of AQI Research Group:** In comparison to yesterday, concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have decreased at all locations of Dayalbagh. 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.

Data for Sanjay Place became available since 10:00 am yesterday and was available only till 4:00 am today. On the basis of available data, the Air Quality Index w.r.t PM<sub>2.5</sub> is in the *Moderate* category and w.r.t PM<sub>10</sub> 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