

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 2.2.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean) : PM₁₀ = 150; PM_{2.5} = 35, all units are in µg/m³ | 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 _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm		PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
Max	Min						Max	Min												
	Today: Feb 2 –1																			
	Yesterday Feb 1 - Jan 31																			
4 / 97	Today	171	129	81	2.4	WNW	23.3	10.4	42	0	Today	167	149	76	1.6	SSE	20.7	9.5	95	0
	Yesterday	162	104	81	1.2	S	21.8	9.4	45	0										
3 / 34	Today	166	116	85	2.3	WNW	20.7	10.3	68	0										
	Yesterday	171	111	84	1.2	S	21.4	9.0	68	0										
Science Faculty	Today	188	137	88	1.5	WNW	20.4	9.7	51	0	Yesterday	166	147	76	1.2	ESE	22.9	7.8	96	0
	Yesterday	215	131	85	1.7	W	21.9	8.7	53	0										

Views of AQI Research Group: Prem Nagar recorded the lowest AQI for both Particulate Pollutants across Dayalbagh and Sanjay Place. Relatively higher Solar Radiation and increased Wind Speed seem to be the cause of this at Prem Nagar. At Science Faculty, highest Relative Humidity(RH) and least Wind Speed provide explanation for it having mildly higher AQI within Dayalbagh. PM10.0 across Dayalbagh remained better than Sanjay Place despite higher Relative Humidity. PM2.5 decreased at Prem Nagar and Science Faculty but increased mildly at Prem Nagar and Sanjay Place.

Received: Wednesday, 2 February 2022, 11:21 AM

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Remarks of Reversed 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
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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 (PM_{2.5}), C_{low}=Concentration Breakpoint ≤C, C_{high}=Concentration Breakpoint ≥C, I_{low}=Index Break point corresponding to C_{low}, I_{high}=Index Breakpoint corresponding to C_{high}