

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.9.2022 (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 = 48 hrs (6:00 AM to 6:00 AM)

LOCATION	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)											SANJAY PLACE (ARITHMETIC MEAN DATA)										
	Date Today: September 12 – 11 Yesterday September 11 – 10	Duration M = Daytime (6 am – 6 pm) E = Night time (6 pm – 6 am)	AQI		Meteorological Parameters							AQI		Meteorological Parameters								
			PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	R F m m	P M _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	R F m m		
								Ma x	Min								Ma x	Min				
4 / 97	Today	E	53	23	71	1.3	SE	33.9	26.9	05	0	Today	E	84	52	66	2.3	E	36	29	08	0
		M	46	19	59	1.6	SE	37.6	28.2	306	0		M	84	49	57	2.2	E	39.1	29.4	404	0
	Yesterday	E	66	33	76	1.1	SE	32.0	28.1	05	0		E	107	56	72	2.2	E	34.0	29.7	07	0
		M	74	34	62	1.6	SE	38.5	29.0	316	0		M	110	56	61	1.5	E	38.7	30	362	0
3 / 34	Today	E	68	23	71	1.3	SE	33.9	26.9	05	0	Yesterday	E	107	56	72	2.2	E	34.0	29.7	07	0
		M	68	24	59	1.6	SE	37.6	28.2	306	0		M	110	56	61	1.5	E	38.7	30	362	0
	Yesterday	E	87	37	76	1.1	SE	32.0	28.1	05	0		E	107	56	72	2.2	E	34.0	29.7	07	0
		M	95	39	62	1.6	SE	38.5	29.0	316	0		M	110	56	61	1.5	E	38.7	30	362	0
Science Faculty	Today	E	53	33	71	1.3	SE	33.9	26.9	05	0	Yesterday	E	107	56	72	2.2	E	34.0	29.7	07	0
		M	55	33	59	1.6	SE	37.6	28.2	306	0		M	110	56	61	1.5	E	38.7	30	362	0
	Yesterday	E	95	43	76	1.1	SE	32.0	28.1	05	0		E	107	56	72	2.2	E	34.0	29.7	07	0
		M	105	45	62	1.6	SE	38.5	29.0	316	0		M	110	56	61	1.5	E	38.7	30	362	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
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Views of AQI Research Group: The meteorological conditions have favoured dispersion of pollutants; particulate matter concentrations have therefore reduced significantly and improved the Air Quality Index.

At Sanjay Place also the concentrations of particulate matter have marginally decreased. The Air Quality Index w.r.t. PM_{2.5} has improved to *Moderate* category from *Unhealthy for Sensitive Groups* category, while Air Quality Index w.r.t. PM₁₀ has improved marginally.

Presentation is deceptive, shift-wise chart may be prepared separately.

Perused By Way of Information Only,
Subject To Legalise/Legalese/"Laws of the Land".

Monday, 12-09-2022, 05:53 PM
Received, Monday, 12-09-2022, 01:12 PM

NOTE: 1 A continuing 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}; *Multiplication Sign