Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 10.9.2022
(BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean): PM_{10} = 150; $PM_{2.5}$ = 35, all units are in µg/m^3 Sampling Duration = 48 hrs (6:00 AM to 6:00 AM)

LOCATION	Date	Duration M = Daytime (6 am – 6 pm) E = Night time (6 pm – 6 am)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA) AQI $PM_{2.5}$	AQI PM_{10}	Meteorological Parameters RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
4 / 97	Today	E	89	50	76	0.9	SE	31.8	21.8	05	0
		M	95	45	60	1.5	SE	39.7	29.3	295	0
	Yesterday	E	95	51	71	0.9	SSE	33.6	29.2	05	0
		M	63	37	47	1.0	E	42.2	29.0	361	0
3 / 34	Today	E	110	52	76	0.9	SE	31.8	21.8	05	0
		M	124	51	60	1.5	SE	39.7	29.3	295	0
	Yesterday	E	127	53	71	0.9	SSE	33.6	29.2	05	0
		M	97	37	47	1.0	E	42.2	29.0	361	0
Science Faculty	Today	E	181	79	76	0.9	SE	31.8	21.8	05	0
		M	158	78	60	1.5	SE	39.7	29.3	295	0
	Yesterday	E	158	73	71	0.9	SSE	33.6	29.2	05	0
		M	134	52	47	1.0	E	42.2	29.0	361	0

LOCATION	Date	Duration M = Daytime (6 am – 6 pm) E = Night time (6 pm – 6 am)	SANJAY PLACE (ARITHMETIC MEAN DATA) AQI $PM_{2.5}$	AQI PM_{10}	Meteorological Parameters RH %	WS m/s	WD	T °C Max	T °C Min	SR W/m^2	RF mm
	Today	E	127	58	72	0.6	ENE	33.7	29.9	08	0
		M	147	65	61	1.5	E	39.1	30.5	361	0
	Yesterday	E	119	74	67	1.0	SE	35.8	30.3	6.8	0
		M	139	70	50	1.7	NNE	40.3	30.3	433	0

Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy for All	Very Unhealthy for All	Hazardous for All	Hazardous for All
0 - 50	51 - 100	101 - 150	151 - 200	201 - 300	301 - 400	401 - 500

Views of AQI Research Group: The enhancement in particulate matter concentrations at Science Faculty and Prem Nagar may probably be due to large number of trucks and vehicles with idol of Lord Ganesha were on route to Poiya Ghat for Visarjan and the people were sprinkling Gulal. This might have resulted in rise in AQI values at Science Faculty and Prem Nagar.

also - powder on each-other being worse than Sanjay Place

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

Saturday, 10-09-2022, 04:57 PM
Received, Saturday, 10-09-2022, 01:22 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

Communicated by Dr. Anita Lakhani, Professor, Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra.