Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 9.9.2022
(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: September 9 – 8	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
	Yesterday: September 8 –	E	59	42	56	0.6	SSE	35.6	28.7	05	0
		M	38	30	48	0.7	E	41.6	28.1	337	0
3 / 34	Today: September 9 – 8	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
	Yesterday: September 8 –	E	70	27	56	0.6	SSE	35.6	28.7	05	0
		M	59	22	48	0.7	E	41.6	28.1	337	0
Science Faculty	Today: September 9 – 8	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
	Yesterday: September 8 –	E	117	46	56	0.6	SSE	35.6	28.7	05	0
		M	91	35	48	0.7	E	41.6	28.1	337	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: September 9 – 8	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
	Yesterday: September 8 –	E	112	79	57	0.5	NNE	37	30.7	7.4	0
		M	87	65	51	1.6	ENE	40.2	30.9	421	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 change in wind direction (mostly eastwards) might be a plausible reason for enhanced concentrations of particulate matter resulting in ~~higher~~ Worse Air Quality Index. Air Quality Index during the daytime is better than nighttime (E).

~~The Air Quality Index at the Dayalbagh sites is better than Sanjay Place.~~ [2]

Relevant Color Codes and Sub-atomic Particulate Concentrations do not justify the Remark "Betther than Sanjay Place" and call for Immediate Steps to Rectify this Worse & Worst-Ever Situation, WHICH IS SHOCKING INDEED!!! (Preliminary Report should be submitted Within 24 Hours)

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

Friday, 09-09-2022, 04:47 PM
Received, Friday, 09-09-2022, 12:46 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

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