

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 26.3.2022 (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)								
	Today:	AQI		Meteorological Parameters							Today:	AQI		Meteorological Parameters						
	March 26 – 25 Yesterday March 25 - 24	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm	March 26 – 25 Yesterday March 25 - 24	PM _{2.5}	PM ₁₀	RH %	WS m/s	WD	T °C		SR W/m ²	RF mm
							Max	Min									Max	Min		
4 / 97	Today	99	85	41	3.0	SE	39.2	21.8	130	0	Today	156	127	37	3.6	N	39.7	24.2	172	0
	Yesterday	117	103	40	3.3	SSE	39.7	23.3	123	0										
3 / 34	Today	115	64	42	3.0	SE	37.9	21.9	119	0	Yesterday	163	148	36	2.3	N	40.2	25.9	164	0
	Yesterday	127	73	41	3.3	SSE	38.6	23.8	116	0										
Science Faculty	Today	117	68	45	3.0	SE	37.3	21.4	137	0	Yesterday	163	148	36	2.3	N	40.2	25.9	164	0
	Yesterday	137	81	43	3.3	SSE	38.5	23.4	131	0										

Views of AQI Research Group: The AQI at Dayalbagh is better than that at Sanjay Place w.r.t both PM_{2.5} and PM_{10.0}. The improvement in AQI can be attributed to change in Wind Direction and increased Solar Radiation.

Remarks of Revered Chairman-ACE: The higher increase in Solar Radiation in Vidyut Nagar should be investigated through Research at multiple levels. Also, the PM_{2.5} levels at Vidyut Nagar has improved substantially. Same should be investigated. It be also referred to P.Bn. Rima Mehta.

Received: Saturday, 26 March 2022, 10:19 AM
Perused : Subject to Legalese / Legalise / “Laws of the Land”

Saturday, 26 March 2022, 4:10 PM

Good -G

Moderate- M

Unhealthy for Sensitive Groups- UHS

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}