

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 2.8.2022 (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  $\mu g/m^3$  Sampling Duration = 24 hrs (9:00 AM to 9:00 AM)

	Date	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)									Date	SANJAY PLACE (ARITHMETIC MEAN DATA)								
	Today:	Air Quality Index			Meteorological Parameters						Today:	AQI			Meteorological Parameters					
	August 2 – 1										August 2 – 1									
	Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm
	August 1 – July 31						Max	Min			August 1 – July 31						Max	Min		
4 / 97	Today	13	10	68	1.4	N	37.8	27.3	216	0	Today	38	26	68	2.9	SSW	36.6	28.5	233	0
	Yesterday	17	15	67	3.8	N	37.0	28.3	203	0										
3 / 34	Today	33	11	68	1.4	N	37.8	27.3	216	0	Yesterday	50	39	65	3.5	SSW	36.7	29.6	222	0
	Yesterday	33	14	67	3.7	N	38.5	28.5	203	0										
Science Faculty	Today	25	08	68	1.4	N	37.8	27.3	216	0	Yesterday	50	39	65	3.5	SSW	36.7	29.6	222	0
	Yesterday	25	11	67	3.7	N	38.5	28.5	203	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
----------------	----------------------	---------------------------------------------	--------------------------------	-------------------------------------	--------------------------------	--------------------------------

**Views of AQI Research Group:** In comparison to yesterday, concentrations of  $PM_{2.5}$  have remained nearly constant, while  $PM_{10}$  have further decreased. The prevalent low concentrations of particulate matter are due to favourable meteorological conditions (moderate Relative Humidity, high Solar Radiation) promoting dispersal of pollutants. The Air Quality Index w.r.t. both  $PM_{2.5}$  and  $PM_{10}$  remains in the *Good* category at all the three locations of Dayalbagh.

At Sanjay Place also, the concentrations of both  $PM_{2.5}$  and  $PM_{10}$  have decreased. The Air Quality Index remains in the *Good* category w.r.t.  $PM_{2.5}$  and  $PM_{10}$ .

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

Wednesday, 03-08-2022, 04:43 AM  
Received, Tuesday, 02-08-2022, 12:39 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  $\leq C$ ;  $C_{high}$  = Concentration Breakpoint  $\geq C$ ;  $I_{low}$  = Index Break point corresponding to  $C_{low}$ ;  $I_{high}$  = Index Breakpoint corresponding to  $C_{high}$ ; \*Multiplication Sign