

# Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 20.7.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean): PM<sub>10</sub> = 150; PM<sub>2.5</sub> = 35, all units are in µg/m<sup>3</sup> 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														
	July 20 – 19	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m <sup>2</sup>	RF mm	July 20 – 19	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						Max	Min			Max						Min	Yesterday			Max	Min							
	July 19 – 18										July 19 – 18																		
4 / 97	Today	53	25	68	2.5	S	39.5	30.9	208	0	Today	97	57	59	1.9	SE	41.4	32.3	261	0									
	Yesterday	66	23	71	2.9	S	38.1	30.1	220	1.0																			
3 / 34	Today	76	28	68	2.5	S	39.4	30.7	208	0	Yesterday	93	59	60	1.9	S	40.7	32.0	248	0									
	Yesterday	66	23	72	2.9	S	38.0	29.8	220	1.0																			
Science Faculty	Today	68	25	70	2.5	S	39.3	30.7	208	0																			
	Yesterday	70	31	74	2.8	S	38.0	29.4	220	1.0																			

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:** In comparison to yesterday, the concentrations of both PM<sub>2.5</sub> and PM<sub>10</sub> have marginally changed. This variation may be attributed to the variations in the meteorological parameters. The Air Quality Index is in *Moderate* category w.r.t. PM<sub>2.5</sub> and in *Good* category w.r.t. PM<sub>10</sub> at all the three locations of Dayalbagh.

At Sanjay Place also, the concentrations of PM<sub>2.5</sub> and PM<sub>10</sub> have marginally decreased. The Air Quality Index remains in the *Moderate* category w.r.t. PM<sub>2.5</sub> and PM<sub>10</sub>.

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

Wednesday, 20-07-2022, 05:09 PM  
Received, Wednesday, 20-07-2022, 12:30 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<sub>2.5</sub> 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<sub>2.5</sub>); C<sub>low</sub> = Concentration Breakpoint ≤C; C<sub>high</sub> = Concentration Breakpoint ≥C; I<sub>low</sub> = Index Break point corresponding to C<sub>low</sub>; I<sub>high</sub> = Index Breakpoint corresponding to C<sub>high</sub>; \*Multiplication Sign