Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 6.9.2022 (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 $\mu g/m^3$ Sampling Duration = 48 hrs (6:00 AM to 6:00 AM)

L O	Today: Septem ber 6 - 5 Night Vesterd	Duration M = Daytime (6 am - 6 pm) E = Night time (6 pm - 6	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)										Duration M = Daytime (6	SANJAY PLACE (ARITHMETIC MEAN DATA)									
C A T I			PM _{2.5}	PM ₁₀	RH %	WS m/s	wD	rical Paramete T °C				Septem ber 6 – 5	am – 6 pm) E = Night time (6 pm – 6		AQI		Meteo	orologi	T °C			R	
O N		am)						Ma x	Min	SR W/ m ²	RF mm	Yesterd ay Septem ber 5 – 4	am)	P M ₂ .	PM ₁₀	RH %	WS m/s	WD	Ma x	Min	SR W/ m ²	F m m	
4/97	Today	E	38	30	61	0.5	NE	35.4	28.0	2.7	0	Today	Е			59	1.5	NNE	36.3	29.8	7.6		
	Yesterd	M E	25 42	19 22	48 57	1.4	N NNE	40.4 35.8	27.9 28.6	382 5.3	0			76	64							0	
	ay	M	25	18	51	1.5	N	41.1	28.5	376	0	Today	_									+-	
3/34	Today	E	57	22	61	0.5	NE	35.4	28.0	2.7	0		М	57	55	51	2.5	E	38.7	30.7	449	0	
		М	50	17	48	1.4	N	40.4	27.9	382	0												
	Yesterd	E	63	21	57	1.2	NNE	35.8	28.6	5.3	0		_								Ì		
	ay	M	50	17	51	1.5	N	41.1	28.5	376	0		E	70	72	64	2.3	E	35.3	29	7.4	0	
Scien	Today	E M	72 61	26	61 48	0.5	NE N	35.4 40.4	28.0 27.9	2.7 382	0	Yesterd					 	<u> </u>				 	
ce Facul	Yesterd	E E	63	21 24	48 57	1.4	NNE	35.8	27.9	5.3	0	ay	M	59	55	52	3.3	ENE	38.9	30.9	416	0	
ty	ay	M	57	21	51	1.5	N	41.1	28.5	376	0									30.9	410		
Good 0 - 50		Moderate 51 - 100	Unhealthy for Sensitive Groups 101 - 150						Unh	Unhealthy for All			Very Unhealthy for All 201 - 300			Hazardous for All 301 - 400				Hazardous for All 401 - 500		All	

Views of AQI Research Group: During the daytime (M), the meteorological conditions (low Relative humidity, higher Wind Speed and higher Temperature) favour dispersal of pollutants hence, Air Quality Index is better than nighttime (E).

The Air Quality Index at the Dayalbagh sites is better than Sanjay Place.

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 -

$$I = \frac{I_{\rm high} - I_{\rm low}}{C_{\rm high} - C_{\rm low}} * (C - C_{\rm low}) + I_{\rm low}$$

where: I = Air Quality Index; C = Pollutant Concentration (PM_{2.5}); C_{low} = Concentration Breakpoint \leq C; C_{high} = Concentration Breakpoint \geq C; C_{high} = Index Breakpoint corresponding to C_{low} ; C_{low} = Index Breakpoint corresponding to C_{high} ; *Multiplication Sign