## Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 19.5.2022 (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											SANJAY PLACE								
	Today:  May 19 – 18  Yesterday  May 18 – 17	(TIME WEIGHTED AVERAGE DATA)									Todow	(ARITHMETIC MEAN DATA)								
		Air QualityIndex		Meteorological Parameters							Today:	AQI		Meteorological Parameters						
		PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR	DE	May 19 – 18  Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR	RF
										RF										
							Max	Min	W/m <sup>2</sup>	mm	May 18 – 17			70	III/S		Max	Min	W/m <sup>2</sup>	mm
4 / 97	Today	63	69	43	2.3	ESE	45.5	31.1	150	0	Today	153	178	39	2.9	N	47.3	33.0	197	0
	Yesterday	72	82	40	3.0	NE	43.9	31.0	167	0										
3 / 34	Today	78	50	43	2.3	ESE	45.0	30.9	168	0										
	Yesterday	84	57	41	3.0	NE	43.1	30.8	174	0										
Science	Today	74	49	43	2.3	ESE	44.6	30.4	162	0	Yesterday	161	188	38	3.0	NE	45.8	33.2	188	0
Faculty	Yesterday	80	56	42	3.0	NE	43.0	30.6	167	0										

Views of AQI Research Group: Both PM<sub>2.5</sub> and PM<sub>10</sub> levels have decreased in comparison to yesterday at all the sites. The Wind Direction at Dayalbagh sites has changed from NE to ESE, Wind Speed has decreased and Relative Humidity has increased. Air Quality Index at all the Dayalbagh sites w.r.t to PM<sub>2.5</sub> is in the *Moderate* category and w.r.t to PM<sub>10</sub> it is in the *Moderate* category at Vidyut Nagar and *Good* Category at Prem Nagar and Science Faculty. At Sanjay Place, there is marginal decrease in Wind Speed, Wind Direction has changed from NE to N. Air Quality Index at Sanjay Place w.r.t both PM<sub>2.5</sub> and PM<sub>10</sub> is in the *Unhealthy for All* category. Air Quality Index at Dayalbagh is better than Sanjay Place.

Remarks of Revered Chairman-ACE:

Received: Thursday, 19-05-2022, 12:28 PM
Perused By Way of Information Only,

<u>Subject to Legalese / Legalise / "Laws of the Land"</u>

Thursday, 19-05-2022, 01:17 PM

Good - G

Moderate - M

**Unhealthy for Sensitive Groups - UHS** 

Unhealthy for All - UHA

Very Unhealthy for All - VUHA

**Hazardous for All - HZA** 

Hazardous for All - HZA

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<sub>2.5</sub> concentration readings are fed in USEPA online calculator for AQI calculation 3 Formula for AQI calculation for a Pollutant –

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

where, I = Air Quality Index, C=Pollutant Concentration (PM2.5), Clow=Concentration Breakpoint ≤C, Chigh=Concentration Breakpoint ≥C, Ilow=Index Break point corresponding to Clow, Ihigh=Index Breakpoint corresponding to Chigh