## Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 23.5.2022 (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			H				Date	SANJAY PLACE											
	To do	(TIME WEIGHTED AVERAGE DATA)									To door	(ARITHMETIC MEAN DATA)								
	Today:	Air Quality Index		Meteorological Parameters						Today:	AQI		Meteorological Parameters							
	May 23 – 22 <b>Yesterday</b> May 22 – 21	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		GTD.	DE	May 23 – 22		PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR W/m²	RF
									SR W/m <sup>2</sup>	RF	Yesterday									
							Max	Min	vv/III-	mm	May 22 – 21						Max	Min	VV/III	mm
4 / 97	Today	53	65	45	4.1	S	43.9	26.3	146	0	Today	134	127	43	3.9	N	44.4	29.2	192	0
	Yesterday	46	71	34	4.4	N	45.2	29.8	157	0										
3/34	Today	59	44	45	4.1	S	42.5	26.6	166	0										
	Yesterday	50	47	34	4.3	N	45.5	29.7	170	0	Yesterday	129	142	33	3.6	SE		31.4	195	0
Science	Today	61	46	45	4.2	S	42.7	26.0	165	0							47.4			
Faculty	Yesterday	50	48	35	4.4	N	45.8	29.2	165	0										

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

Views of AQI Research Group: There is marginal increase in PM<sub>2.5</sub> concentration and marginal decrease in PM<sub>10</sub> concentration at all the sites. Relative Humidity has increased at all the sites and there is marginal change in Wind Speed, lowering of Maximum and Minimum Temperature and Solar Radiation at all the sites. Wind Direction has changed from N to S at the Dayalbagh sites and SE to N at Sanjay Place. Air Quality Index w.r.t PM<sub>2.5</sub> at the Dayalbagh sites is in the *Moderate* category. Air Quality Index w.r.t PM<sub>10</sub> at Prem Nagar and Science Faculty is in the *Good* category and at Vidyut Nagar it is in the *Moderate* category. At Sanjay Place Air Quality Index w.r.t both PM<sub>2.5</sub> and PM<sub>10</sub> is in the *Unhealthy for Sensitive* Groups category.

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

Monday, 23-05-2022, 04:15 PM Received, Monday, 23-05-2022, 12:21 PM

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