## Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 16.2.2022 (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								
	Today: Feb 16 – 15  Yesterday	A	QI	Meteorological Parameters						Today:	(ARITHMETIC MEAN DATA) AQI Meteorological Parameters					ers				
		PM2.5	PM <sub>10</sub>	RH %	WS m/s	WD	°C		SR	RF	Feb 16 – 15  Yesterday	PM <sub>2.5</sub>	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR	RF
F	Feb 15 - 14						Max	Min	W/m <sup>2</sup>	mm	Feb 15 - 14			70	III/S		Max	Min	W/m <sup>2</sup> mn	mm
4 / 97	Today	159	93	61	1.6	S	28.1	12.7	91	0										
	Yesterday	157	92	58	1.7	SSE	28.9	13.6	93	0	Today	149	123	53	0.9	ENE	27.5	14.4	126	0
3 / 34	Today	152	90	65	1.6	S	27.3	12.3	95	0										
	Yesterday	162	84	61	1.7	SSE	27.6	12.4	98	0										
Science	Today	168	85	67	1.6	S	27.0	12.1	73	0	Yesterday	127	113	52	0.9	SSE	26.9	14	130	0
Faculty	Yesterday	165	85	62	1.7	SSE	27.3	12.4	74	0	]									

Views of AQI Research Group: Marginal increase in AQI has occurred at Dayalbagh sites, while at Sanjay Place the change is comparatively larger, though met. parameters are nearly similar except for change in Wind Direction.

Remarks of Revered Chairman-ACE:

Received: Wednesday, 16 February 2022, 11:35 AM

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Wednesday, 16 February 2022,

Good -G

Moderate- M

Unhealthy for Sensitive Groups- US

Unhealthy for All-

Very Unhealthy for All-VUH

**Hazardous for All- HZ** 

**Hazardous for All-HZ** 

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  $PM_{2.5}$  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