## Radhasoami Dayal Ki Daya Radhasoami Sahai

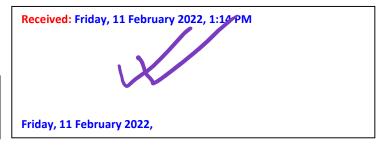
AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 11.2.2022 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

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  Today:	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)  AQI Meteorological Parameters									Date  Today:	SANJAY PLACE (ARITHMETIC MEAN DATA) AQI Meteorological Parameters								
	Feb 11 – 10  Yesterday  Feb 10 - 9	PM2.5	PM <sub>10</sub>	RH %	WS m/s	WD	T °C		SR	RF	Feb 11 – 10	PM <sub>2.5</sub>	PM <sub>10</sub>	RH	ws	WD	T °C		SR	RF
							Max	Min	W/m <sup>2</sup>	mm	Feb 10 - 9			%	m/s		Max	Min	W/m <sup>2</sup>	mm
4/97	Today	119	68	71	2.8	WNW	25.2	11.1	54	0										+
	Yesterday	147	85	91	3.1	E	17.8	9.8	29	3.0	Today	105	95	64	1.9	SW	21.9	10.8	109	0
3/34	Today	151	85	73	2.8	WNW	22.3	9.6	83	0										
	Yesterday	124	66	93	3.1	Е	17.7	9.3	32	3.0										
Science	Today	152	68	76	2.8	WNW	21.7	9.1	64	0	Yesterday	87	64	86	1.5	ENE	17.7	13.3	43	4.7
Faculty	Yesterday	147	68	95	3.1	E	17.9	8.9	29	3.0										

Views of AQI Research Group: Vidyut Nagar had the lowest AQI at Dayalbagh perhaps because of comparatively highest Temperature and lowest Relative Humidity. Diminishing effect of rainfall seems to have caused the increase in AQI for both PM2.5 and PM10.0 at Sanjay Place and Prem Nagar. Science Faculty saw no or little change in AQI.

Remarks of Revered Chairman-ACE: With reference to Prem Nagar location it is deeply regretted that in spite of the present lessee testing positive to COVID 19 pandemic, the construction activity in that location continues unabated. This requires immediate action and if necessary full-fledged inquiry should be set up against the perpetrators in the Construction Department.



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