Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 30.12.2021
(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 (ARITHMETIC MEAN DATA)							
Today: Dec 30-29 Yesterday: Dec 29-28		AQI		Meteorological Parameters						Today: Dec 30-29 Yesterday: Dec 29-28		AQI		Meteorological Parameters					
		$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m²	RF mm			$PM_{2.5}$	PM_{10}	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	Today	165	145	78	1.4	S	15	48	0	Today		172	113	68	1.5	E	11	79	0
	Yesterday	166	139	85	2.0	E	15	20	0.5										
3 / 34	Today	164	109	79	1.4	S	14	53	0										
	Yesterday	162	97	87	2.0	E	15	17	0.5										
Science Faculty	Today	193	131	84	3.3	NE	14	41	0	Yesterday		168	99	79	1.4	SSE	11	33	0.5
	Yesterday	200	147	90	2.6	NE	15	18	0.5										

Views of AQI Research Group: At Science Faculty, DEI, the NE winds seem to have ushered improvement in AQI across both pollutant - sizes w.r.t. yesterday. Prem Nagar witnessed highest Solar Radiation(SR) and the best AQI within Dayalbagh. Eastern winds at Sanjay Place may have caused deterioration over its own previous readings despite higher SR and decreased Relative Humidity (RH).

Remarks of Revered Chairman-ACE:

Received : Thursday, 30 December 2021, 1:16 PM

Thursday, 30 December 2021, 5:21 PM

Good -G	Moderate- M	Unhealthy for Sensitive Groups- US	Unhealthy for All-UH	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 –

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

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