Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 20.07.2021

Permissible Limits: $PM_{10} = 100$; $PM_{2.5} = 60$, all units are in $\mu g/m^3$

Sampling Site and Height	Duration of Sampling	DAYALBAGH (Time Weighted Average)							SANJAY PLACE @ 40 feet (Arithmetic Mean)							AIR QUALITY INDEX (AQI) ON THE BASIS OF PM _{2.5} CONCENTRATION			
		PM ₁₀ [μg/m³]		PM _{2.5} [μg/m ³]		Meteorological Parameters		PM ₁₀ [μg/m ³] Calculated on the basis of PM ₁₀ /PM _{2.5} ratio at Dayalbagh		PM _{2.5} [μg/m ³] @ 40 feet		Meteorological Parameters		DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet			
		Today 20.7.21- 19.7.21	Yesterday 19.7.21- 18.7.21	Today 20.7.21- 19.7.21	Yesterday 19.7.21- 18.7.21	RH %	WS m/s	WD	Today 20.7.21- 19.7.21	Yesterday 19.7.21- 18.7.21	Today 20.7.21- 19.7.21	Yesterday 19.7.21- 18.7.21	RH %	WS m/s	WD	Today 20.7.21- 19.7.21	Yesterday 19.7.21- 18.7.21	Today 20.7.21- 19.7.21	Yesterday 19.7.21- 18.7.21
4/97 @ 40 feet	12:00- 12:00 noon	√ +22↑	32	✓+17↑ ↑	30	90	3.6	SW								61 Satisfactory	89 Satisfactory		
3/34 @ 40 feet	12:00- 12:00 noon	√ +23↑	31	✓+15↑ ↑	26	90	3.6	SW	+17↓	12	+13	11	91	1.5	SW	57 Satisfactory	80 Satisfactory	53 Satisfactory	
Science Faculty @ 40 feet	12:00- 12:00 noon	√ +23↑	32	✓+15↑ ↑	26	90	3.6	SW								57 Satisfactory	80 Satisfactory		

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 (**PM_{2.5}**), C_{low} =Concentration Breakpoint \leq C, C_{high} =Concentration Breakpoint \geq C, $C_$

- 4 ↑ Denotes improvement in quality (↓ Inverse)
- $\uparrow \uparrow$ Denotes significant improvement in quality ($\downarrow \downarrow$ Inverse)
- ✓ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place
- +Denotes values are near or within permissible limits.