Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 29.06.2021

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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/m ³]		PM _{2.5} [μg/m ³]		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		DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet	
		Today 29.6.2021- 28.6.2021	Yesterday 28.6.2021- 27.6.2021	Today 29.6.2021- 28.6.2021	Yesterday 28.6.2021- 27.6.2021	Today 29.6.2021- 28.6.2021	Yesterday 28.6.2021- 27.6.2021	Today 29.6.2021- 28.6.2021	Yesterday 28.6.2021- 27.6.2021	Today 29.6.2021-28.6.2021	Yesterday 28.6.2021- 27.6.2021	Today 29.6.2021- 28.6.2021	Yesterday 28.6.2021- 27.6.2021
4/97 @ 40 feet	12:00- 12:00 noon	√+48 ↑	67	√ +33↑	46	+63	66	+48	51	95 satisfactory	127 MODERATE	132 moderate	139 moderate
3/34 @ 40 feet	12:00- 12:00 noon	√ +33↑	46	√ +27↑	38					82 SATISFACTORY	107 moderate		
Science Faculty @ 40 feet	12:00- 12:00 noon	√+38 ↑	51	√ +29↑	40					87 SATISFACTORY	112 moderate		

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

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 –

$$I = \frac{I_{\text{high}} - I_{\text{low}}}{C_{\text{high}} - C_{\text{low}}} * (C - C_{\text{low}}) + I_{\text{low}} \qquad \text{where, } I = \text{Air Quality Index,} \\ I_{\text{low}} = \text{Index Break point corres}$$

where, I = Air Quality Index, C=Pollutant Concentration (PM_{2.5}), C_{low} =Concentration Breakpoint \leq C, C_{high} =Concentration Breakpoint \geq C, I_{low} =Index Break point corresponding to C_{low} , I_{high} =Index Breakpoint corresponding to C_{high}

4 \uparrow Denotes improvement in quality (\downarrow 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.