Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 10.06.2021

Permissible Limits: PM_{10} = 100; $PM_{2.5}$ = 60, all units are in µg/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/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 10.6.2021-9.6.2021	Yesterday 9.6.2021-8.6.2021	Today 10.6.2021-9.6.2021	Yesterday 9.6.2021-8.6.2021	Today 10.6.2021-9.6.2021	Yesterday 9.6.2021-8.6.2021	Today 10.6.2021-9.6.2021	Yesterday 9.6.2021-8.6.2021	Today 10.6.2021-9.6.2021	Yesterday 9.6.2021-8.6.2021	Today 10.6.2021-9.6.2021	Yesterday 9.6.2021-8.6.2021
4/97 @ 40 feet	12:00-12:00 noon	✓133↓	81	✓+34↓	22	296↓↓	165	102↓↓	66	97 SATISFACTORY	72 SATISFACTORY	175 MODERATE	156 MODERATE
3/34 @ 40 feet	12:00-12:00 noon	✓+57↓	37	✓+20↓	11					68 SATISFACTORY	46 GOOD		
Science Faculty @ 40 feet	12:00-12:00 noon	✓+71↓	41	✓+22↓	10					72 SATISFACTORY	42 GOOD		

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 **($PM_{2.5}$)**, C_{low}=Concentration Breakpoint ≤C, C_{high}=Concentration Breakpoint ≥C, I_{low}=Index Break point corresponding to C_{low}, I_{high}=Index Breakpoint corresponding to C_{high}

4 ↑ Denotes improvement in quality (↓ Inverse)

↑↑ Denotes significant improvement in quality (↓↓ Inverse)

✔ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place

+Denotes values are near or within permissible limits