Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 21.06.2021

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} [$\mu g/m^3$]		$PM_{2.5}$ [$\mu g/m^3$]		PM_{10} [$\mu g/m^3$] Calculated on the basis of $PM_{10}/PM_{2.5}$ ratio at Dayalbagh		$PM_{2.5}$ [$\mu g/m^3$] @ 40 feet		DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet	
		Today 21.6.2021-20.6.2021	Yesterday 20.6.2021-19.6.2021	Today 21.6.2021-20.6.2021	Yesterday 20.6.2021-19.6.2021	Today 21.6.2021-20.6.2021	Yesterday 20.6.2021-19.6.2021	Today 21.6.2021-20.6.2021	Yesterday 20.6.2021-19.6.2021	Today 21.6.2021-20.6.2021	Yesterday 20.6.2021-19.6.2021	Today 21.6.2021-20.6.2021	Yesterday 20.6.2021-19.6.2021
4/97 @ 40 feet	12:00-12:00 noon	✔+41↓	32	✔+38↓	29					107 SATISFACTORY	87 SATISFACTORY		
3/34 @ 40 feet	12:00-12:00 noon	✔+37↓	27	✔+32↓	23	+36↓	25	+31↓	21	93 SATISFACTORY	74 SATISFACTORY	91 SATISFACTORY	70 SATISFACTORY
Science Faculty @ 40 feet	12:00-12:00 noon	✔+40↓	28	✔+34↓	24					97 SATISFACTORY	76 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 PM2.5 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**), 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