

Radhasoami Dayal Ki Daya Radhasoami Sahai

**AIR QUALITY MONITORING REPORT – Dated:16.07.2021**

Permissible Limits: PM<sub>10</sub> = 100; PM<sub>2.5</sub> = 60, all units are in µg/m<sup>3</sup>

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 <sub>2.5</sub> CONCENTRATION					
		PM <sub>10</sub> [µg/m <sup>3</sup> ]		PM <sub>2.5</sub> [µg/m <sup>3</sup> ]		Meteorological Parameters			PM <sub>10</sub> [µg/m <sup>3</sup> ] Calculated on the basis of PM <sub>10</sub> /PM <sub>2.5</sub> ratio at Dayalbagh		PM <sub>2.5</sub> [µg/m <sup>3</sup> ] @ 40 feet		Meteorological Parameters			DAYALBAGH @ 40 feet		SANJAY PLACE @ 40 feet		
		Today 16.7.21- 15.7.21	Yesterday 15.7.21- 14.7.21	Today 16.7.21- 15.7.21	Yesterday 15.7.21- 14.7.21	RH %	WS m/s	WD	Today 16.7.21- 15.7.21	Yesterday 15.7.21- 14.7.21	Today 16.7.21- 15.7.21	Yesterday 15.7.21- 14.7.21	RH %	WS m/s	WD	Today 16.7.21- 15.7.21	Yesterday 15.7.21- 14.7.21	Today 16.7.21- 15.7.21	Yesterday 15.7.21- 14.7.21	
4/97 @ 40 feet	12:00- 12:00 noon	✓+31	34	✓+29	33	61	4.5	ESE									87 Satisfactory	95 Satisfactory		
3/34 @ 40 feet	12:00- 12:00 noon	✓+26	28	✓+23	25	61	4.5	ESE	+33	30	+30	27	54	3.7	SSE		74 Satisfactory	78 Satisfactory	89 Satisfactory	82 Satisfactory
Science Faculty @ 40 feet	12:00- 12:00 noon	✓+28	31	✓+24	27	61	4.5	ESE									76 Satisfactory	82 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<sub>2.5</sub> 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<sub>2.5</sub>), C<sub>low</sub>=Concentration Breakpoint ≤C, C<sub>high</sub>=Concentration Breakpoint ≥C, I<sub>low</sub>=Index Break point corresponding to C<sub>low</sub>, I<sub>high</sub>=Index Breakpoint corresponding to C<sub>high</sub>

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.