Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 31.05.2021

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				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		SANJAY PLACE @ 40 feet	
		Today 31.05.2021	Yesterday 30.05.2021	Today 31.05.2021	Yesterday 30.05.2021	Today 31.05.2021	Yesterday 30.05.2021	Today 31.05.2021	Yesterday 30.05.2021	Today 31.05.2021	Yesterday 30.05.2021	Today 31.05.2021	Yesterday 30.05.2021
4/97 @ 20 feet	7:15 –8:15 AM	✔+89↓↓	41	✔+34↓	24	+94↓↓	29	+36	17	97 SATISFACTORY	76 SATISFACTORY	102 MODERATE	61 SATISFACTORY
3/34 @ 40 feet	8:30 – 9: 30AM	✔+87↓↓	42	✔+29↓	21	+111	NA	+37	NA	87 SATISFACTORY	70 SATISFACTORY	105 MODERATE	NA
Science Faculty @ 20 feet	10:00 – 11:00AM	✔+92↓↓	48	✔+21	21	188	NA	+43	NA	70 SATISFACTORY	70 SATISFACTORY	119 MODERATE	NA
Dairy @ 6 feet	12:00 – 1:00 PM	✔+28↑	45	✔+12↑	15	+110	NA	+47	NA	50 GOOD	57 SATISFACTORY	129 MODERATE	NA
Control Room @ 6 feet	1:15 – 2:15 PM	✔+37↑	46	✔+11↑	15	138	NA	+41	NA	46 GOOD	57 SATISFACTORY	115 MODERATE	NA

Sampling was performed on 31.05.2021.

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

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 31.05.2021

Location   :   Phalbagh
Time   :   3:30 – 4:30 PM
Wind Speed :   3.9 km/h

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

Data Type	PM_{10} [$\mu g/m^3$]	$PM_{2.5}$ [$\mu g/m^3$]	AIR QUALITY INDEX (AQI) ON THE BASIS OF $PM_{2.5}$ CONCENTRATION
Field Data (TWA) @6feet	✓+101	✓+ 18	63 – SATISFACTORY
Sanjay Place @ 40feet	196	+ 35	99– SATISFACTORY

Sampling was performed on 30.05.2021.

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