Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 19.05.2021

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

Sampling Site and Height	Duration of Sampling	DAYALBAGH				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		SANJAY PLACE @ 40 feet	
		Today 19.05.2021	Yesterday 18.05.2021	Today 19.05.2021	Yesterday 18.05.2021	Today 19.05.2021	Yesterday 18.05.2021	Today 19.05.2021	Yesterday 18.05.2021	Today 19.05.2021	Yesterday 18.05.2021	Today 19.05.2021	Yesterday 18.05.2021
4/95 @ 20 feet	8:00 – 9:00 AM	+70↓	57	+62↓	31	+37	NA	+33	NA	154 MODERATE	91 SATISFACTORY	95 SATISFACTORY	NA
Ladder at PN (Ghodi) @ 12 feet	9:15 – 10: 15AM	+70↓	56	+65↓	37	+53	NA	+49	NA	156 MODERATE	105 MODERATE	134 MODERATE	NA
Science Faculty @ 20 feet	10:30 – 11:30AM	+62↓	39	+58↓	31	NA	NA	NA	NA	152 MODERATE	91 SATISFACTORY	NA	NA
Dairy @ 6 feet	12:00 – 1:00 PM	+60↓	52	+56↓	39	NA	NA	NA	NA	151 MODERATE	110 MODERATE	NA	NA
Control Room @ 6 feet	1:15 – 2:15 PM	✓+42↓	39	✓39↓	32	+50	NA	+46	NA	110 MODERATE	93 SATISFACTORY	127 MODERATE	NA

Sampling was performed on 19.05.2021.

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 $PM_{2.5}$ 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

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 19.05.2021

Location : Punjabi Farm
Time : 4:00 – 5:00 PM
Wind Speed : 7. 8 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	**✓+ 59**	**✓+ 30**	**89 – SATISFACTORY**
Sanjay Place @ 40feet	**+ 53**	**+ 27**	**82 – SATISFACTORY**

Sampling was performed on 18.05.2021.

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 $PM_{2.5}$ 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