Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 29.05.2021

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 29.05.2021	Yesterday 28.05.2021	Today 29.05.2021	Yesterday 28.05.2021	Today 29.05.2021	Yesterday 28.05.2021	Today 29.05.2021	Yesterday 28.05.2021	Today 29.05.2021	Yesterday 28.05.2021	Today 29.05.2021	Yesterday 28.05.2021
4/95 @ 20 feet	7:15 –8:15 AM	✓+26↑	37	✓+09↑↑	21	+32↑	37	+11↑↑	21	38 GOOD	70 SATISFACTORY	46 GOOD	70 SATISFACTORY
3/34 @ 40 feet	8:30 – 9: 30AM	✓+39↑	41	✓+12↑↑	20	+26↑	31	+08↑↑	15	50 GOOD	68 SATISFACTORY	33 GOOD	57 SATISFACTORY
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+29↑	33	✓+08↑↑	16	+87↓	60	+24↑	29	33 GOOD	59 SATISFACTORY	76 SATISFACTORY	87 SATISFACTORY
Dairy @ 6 feet	12:00 – 1:00 PM	✓+24↑↑	37	✓+07↑↑	17	+89↓↓	44	+26↓	20	29 GOOD	70 SATISFACTORY	80 SATISFACTORY	68 SATISFACTORY
Control Room @ 6 feet	1:15 – 2:15 PM	✓+27↑↑	49	✓+07↑↑	20	+96↓↓	39	+25↓	16	29 GOOD	61 SATISFACTORY	78 SATISFACTORY	59 SATISFACTORY

Sampling was performed on 29.05.2021.

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: 29.05.2021

Location : Punjabi Farm
Time : 3:45 – 4:45 PM
Wind Speed : 4.2 km/h

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

Data Type	PM_{10} [µg/m^3]	$PM_{2.5}$ [µg/m^3]	AIR QUALITY INDEX (AQI) ON THE BASIS OF $PM_{2.5}$ CONCENTRATION
Field Data (TWA) @6feet	**✓+63**	**✓+ 23**	**74 – SATISFACTORY**
Sanjay Place @ 40feet	**+82**	**+ 30**	**89 – SATISFACTORY**

Sampling was performed on 28.05.2021.

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