Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 29.04.2021

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 29.04.2021	Yesterday 28.04.2021	Today 29.04.2021	Yesterday 28.04.2021	Today 29.04.2021	Yesterday 28.04.2021	Today 29.04.2021	Yesterday 28.04.2021	Today 29.04.2021	Yesterday 28.04.2021	Today 29.04.2021	Yesterday 28.04.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓262↓	203	✓95↑	111	306↓↓	207	111	113	171 MODERATE	180 MODERATE	180 MODERATE	181 MODERATE
Ladder at PN (Ghodi) @ 12 feet	8:30 – 9: 30AM	✓200↑	262	✓120↓	104	257↓	292	154↓	116	184 MODERATE	176 MODERATE	204 POOR	182 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓228↑	248	✓102↓	91	277↑	346	124	127	175 MODERATE	169 MODERATE	186 MODERATE	188 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓191↓	169	✓+71↓	52	272↑	286	101↓	88	159 MODERATE	142 MODERATE	174 MODERATE	168 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓139↓	124	✓+41↓	35	278	280	82↓	79	115 MODERATE	99 SATISFACTORY	165 MODERATE	163 MODERATE

Sampling was performed on 29.04.2021.

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: 29.04.2021

Location : Sikandarpur
Time : 4: 00 – 5:00 PM
Wind Speed : 4.6 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	**✓154**	**✓+ 45**	**124 – MODERATE**
Sanjay Place @ 40feet	**181**	**+ 53**	**144 – MODERATE**

Sampling was performed on 28.04.2021.

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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}

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✔ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place
+Denotes values are near or within permissible limits