Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 11.04.2021

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 11.04.2021	Yesterday 10.04.2021	Today 11.04.2021	Yesterday 10.04.2021	Today 11.04.2021	Yesterday 10.04.2021	Today 11.04.2021	Yesterday 10.04.2021	Today 11.04.2021	Yesterday 10.04.2021	Today 11.04.2021	Yesterday 10.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓251↑	236	✓82↓	76	471↓↓	312	189↓	179	165 MODERATE	162 MODERATE	239 POOR	229 POOR
3/34 @ 40 feet	8:30 – 9: 30AM	✓168↑	190	✓+71↑	109	437↓↓	310	185↓	178	159 MODERATE	179 MODERATE	235 POOR	228 POOR
Science Faculty @ 20 feet	10:00 – 11:00AM	✓229↑	248	✓90	93	275↑	280	108	105	169 MODERATE	170 MODERATE	178 MODERATE	177 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	✓123↓	105	✓+28	31	241↓↓	139	+55↓	+41	84 SATISFACTORY	91 SATISFACTORY	149 MODERATE	115 MODERATE
Control Room @ 6 feet	1:15 – 2:15 PM	✓+97	99	✓+23	23	160↑	181	+38	+42	74 SATISFACTORY	74 SATISFACTORY	107 MODERATE	117 MODERATE

Sampling was performed on 11.04.2021.

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: 11.04.2021

Location : North of Nahar
Time : 4: 00 – 5:00 PM
Wind Speed : 4. 2 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	**✓121**	**✓+ 32**	**93 – SATISFACTORY**
Sanjay Place @ 40feet	**121**	**+32**	**93 – SATISFACTORY**

Sampling was performed on 10.04.2021.

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