Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 17.04.2021

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} [$\mu g/m^3$]		$PM_{2.5}$ [$\mu g/$]		PM_{10} [$\mu g/m^3$] Calculated on the basis of $PM_{10}/PM_{2.5}$ ratio at Dayalbagh		$PM_{2.}$ [$\mu g/m^3$] @ 40 feet		DAYALBAGH		SANJAY PLACE @ 40 feet	
		Today 17.04.2021	Yesterday 16.04.2021	Today 17.04.2021	Yesterday 16.04.2021	Today 17.04.2021	Yesterday 16.04.2021	Today 17.04.2021	Yesterday 16.04.2021	Today 17.04.2021	Yesterday 16.04.2021	Today 17.04.2021	Yesterday 16.04.2021
4/97 @ 20 feet	7:15 – 8:15 AM	✓+65↑↑	247	✓+29↑↑	85	NA	278	NA	96	87 SATISFACTORY	166 MODERATE	NA	172 MODERATE
3/34 @ 40 feet	8:30 – 9:30AM	✓+81↑↑	226	✓+37↑↑	81	171↑↑	315	78↑	113	105 MODERATE	164 MODERATE	163 MODERATE	181 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+85↑↑	203	✓+30↑	52	NA	265	NA	68	89 SATISFACTORY	142 MODERATE	NA	157 MODERATE
Dairy @ 6 feet	11:45 – 12:45 PM	✓+83↑	130	✓+28↑	38	130↑	185	+44↑	54	84 SATISFACTORY	107 MODERATE	122 MODERATE	147 MODERATE
Control Room @ 6 feet	1:00 – 2:00 PM	✓+95↑	129	✓+30↑	40	114↑	158	+36↑	49	89 SATISFACTORY	112 MODERATE	102 MODERATE	134 MODERATE

Sampling was performed on 17.04.2021.

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 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: 17.04.2021

Location : Kuan No. 4
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 $\mu g/m^3$

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	✓145	✓ + 40	112 – MODERATE
Sanjay Place @ 40feet	174	+ 48	132 – MODERATE

Sampling was performed on

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