Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 23.04.2021

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} [$\mu g/m^3$]		$PM_{2.5}$ [$\mu g/m^3$]		PM_{10} [$\mu g/m^3$] Calculated on the basis of $PM_{10}/PM_{2.5}$ ratio at Dayalbagh		$PM_{2.5}$ [$\mu g/m^3$] @ 40 feet		DAYALBAGH		SANJAY PLACE @ 40 feet	
		Today 23.04.2021	Yesterday 22.04.2021	Today 23.04.2021	Yesterday 22.04.2021	Today 23.04.2021	Yesterday 22.04.2021	Today 23.04.2021	Yesterday 22.04.2021	Today 23.04.2021	Yesterday 22.04.2021	Today 23.04.2021	Yesterday 22.04.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓145↓↓	79	✓+62↓	44	117↓↓	68	+50↓	38	154 MODERATE	122 MODERATE	137 MODERATE	107 MODERATE
Ladder at PN (Ghodi) @ 12 feet	8:30 – 9:30AM	✓161↓	101	✓+46↑	49	175↓↓	87	+50↓	42	127 MODERATE	134 MODERATE	137 MODERATE	117 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+111↓	95	✓+28↑	42	139↓	104	+ 35↑	46	84 SATISFACTORY	117 MODERATE	99 SATISFACTORY	127 MODERATE
Dairy @ 6 feet	11:45 – 12:45 PM	✓+90↓	61	✓+26↑	33	159↓↓	59	+46↑	32	80 SATISFACTORY	95 SATISFACTORY	127 MODERATE	93 SATISFACTORY
Control Room @ 6 feet	1:00 – 2:00 PM	✓+101↓↓	58	✓+26	25	144↓↓	72	+37↑	31	80 SATISFACTORY	78 SATISFACTORY	105 MODERATE	91 SATISFACTORY

Sampling was performed on 23.04.2021.

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

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AIR QUALITY MONITORING REPORT – Dated: 23.04.2021

Location   :   Sikandarpur
Time   :   4: 00 – 5:00 PM
Wind Speed :   4.1 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	✓+94	✓+ 26	80 – SATISFACTORY
Sanjay Place @ 40feet	137	+38	107 – MODERATE

Sampling was performed on 22.04.2021.

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