AIR QUALITY MONITORING REPORT – Sampling Results of 1.04.2021 and 31.03.2021

	Duration of Sampling	DAYALBAGH				SANJAY PLACE @ 40 feet (Arithmetic Mean)				AIR QUALITY INDEX (AQI) ON THE BASIS OF PM2.5 CONCENTRATION			
Sampling Site and Height		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 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021	Today 1.04.2021	Yesterday 31.03.2021
4/97 @ 20 feet	7:30 - 8:30AM	√228↓	202	√ +59↑	91	267↓	260	+69个个	117	153 MODERATE	169 MODERATE	158 MODERATE	183 MODERATE
3/34 @ 40 feet	8:45 – 9: 45AM	217↓	205	+53个	61	NA	315	NA	94	144 MODERATE	154 MODERATE	NA	171 MODERATE
Science Faculty @ 20 feet	10:00 - 11:00AM	√ 205↓	180	√ +55↑	58	291↓	168	78↓	54	149 MODERATE	152 MODERATE	162 MODERATE	147 MODERATE
Dairy @ 6 feet	12:00 – 1:00 PM	√158↓	147	√ +37	35	243	NA	+57	NA	105 MODERATE	99 SATISFACTORY	152 MODERATE	NA
Control Room @ 6 feet	1:30 – 2:30 PM	√149↓	118	√ +30↓	24	267↓	216	+43	+44	89 SATISFACTORY	76 SATISFACTORY	119 MODERATE	122 MODERATE

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

Data for Sanjay Place was not available between 9:00 – 10:00 am

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 –

$$I = \frac{I_{\rm high} - I_{\rm low}}{C_{\rm high} - C_{\rm low}} * (C - C_{\rm low}) + I_{\rm low}$$

where, I = Air Quality Index, C=Pollutant Concentration (PM_{2.5}), C_{low} =Concentration Breakpoint \leq C, C_{high} =Concentration Breakpoint \geq C, I_{low} =Index Break point corresponding to C_{low} , I_{high} =Index Breakpoint corresponding to C_{high}

4 \uparrow Denotes improvement in quality (\downarrow Inverse)

 $\uparrow\uparrow$ Denotes significant improvement in quality ($\downarrow\downarrow$ 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

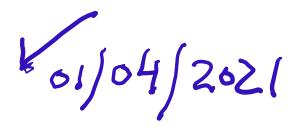
AIR QUALITY MONITORING REPORT – Sampling Results of 31.03.2021

Location : Gainda ka Teela Time : 4: 00 – 5:00 PM

Wind Speed : 7.4 km/h

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

Data Type	PM ₁₀ [μg/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	√165	√ + 34	97 – SATISFACTORY
Sanjay Place @ 40feet	237	+49	134 – MODERATE



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 –

$$I = \frac{I_{\text{high}} - I_{\text{low}}}{C_{\text{high}} - C_{\text{low}}} * (C - C_{\text{low}}) + I_{\text{low}}$$

where, I = Air Quality Index, C=Pollutant Concentration (PM_{2.5}), C_{low} =Concentration Breakpoint \leq C, C_{high} =Concentration Breakpoint \geq C, I_{low} =Index Break point corresponding to C_{low} , I_{high} =Index Breakpoint corresponding to C_{high}

4 \uparrow Denotes improvement in quality (\downarrow Inverse)

 $\uparrow\uparrow$ Denotes significant improvement in quality ($\downarrow\downarrow$ Inverse)

Denotes Dayalbagh readings are better than or equivalent to Sanjay Place

+Denotes values are near or within permissible limits