

Meteorology

The Summarized Meteorological Data for the Monitoring Period (December 2022 to February 2023.) is given below:

Table 1:- Baseline Environmental Status

Month	Temperature °C		Relative Humidity %		Wind Speed (Km/Hr)	
	Min	Max	Min	Max	Min	Max
December 2022	10	28	32	100	0.28	18.36
January 2023	7	28	26	100	0.25	19.22
February 2023	12	33	21	100	0.07	22.82

Attribute	Baseline status
Ambient Air Quality	The ambient air quality study for the 8 AAQ monitoring stations shows that the maximum and minimum ground level concentration for PM ₁₀ is respectively 90.3 µg/m ³ at AAQ4 and 62.3 µg/m ³ at AAQ6. Whereas the maximum and minimum ground level concentration for PM _{2.5} ranges between 57.5 µg/m ³ at AAQ4 and 33.7 µg/m ³ at AAQ3 respectively. Similarly for SO ₂ , the maximum and minimum ground level concentration varies between 10.5 µg/m ³ and 6.0 µg/m ³ for respectively AAQ6 and AAQ4 respectively. For NO ₂ the maximum and minimum ground level concentration varies between 24.7 µg/m ³ & 14.5 µg/m ³ at AAQ8 & AAQ2 locations. For CO the maximum and minimum ground level concentration varies between 0.75- 0.33 mg/m ³ .
Noise Levels	Noise monitoring study reveals that the minimum & maximum noise levels at day time were recorded as 53.1 dB (A) at NQ2 & 68.4 dB (A) at NQ5. The minimum & maximum noise levels at night time were found to be 41.3 dB (A) at NQ5 & 58.3 dB (A) at NQ4.
Water Quality	5 Groundwater samples were analyzed and concluded that: The ground water from all sources remains suitable for drinking purposes as all the constituents are within the limits prescribed by drinking water standards by Indian Standards IS: 10500. From the Surface water analysis it is evident that most of the parameters of the samples comply with 'Category 'C' standards of CPCB indicating their suitability for Drinking water source after conventional treatment and disinfection.
Soil Quality	The analysis results show that soil is basic in nature as pH value ranges from 7.22 to 7.6 with organic matter 0.51 % to 0.87 %. The concentration of

	Nitrogen, Phosphorus and Potassium has been found to be in good amount in the soil samples. Soil texture is silty clay loam.
Ecology and Bio-diversity	There are no Ecologically Sensitive Areas present in the study area.