

BIODIVERSITY RISK ASSESSMENT

Our Methodology

We have used a line transect methods to do assessment for birds and quadrat methods for plant population and vegetation characteristic.

The line transect method is a widely used technique in ecological studies, including bird population assessments. This method involves walking along a straight line, called a transect, and recording observations of birds and their distances from the line. The goal is to estimate bird abundance and distribution within a specific area.

The quadrat method is a widely used sampling technique in ecological studies, particularly for assessing plant populations and vegetation characteristics. This method involves the use of square or rectangular plots, called quadrats, to systematically sample and analyse plant communities in a specific area.

We have used location specific approach to do the biodiversity study.

A location-specific approach to biodiversity refers to the customized and targeted management or conservation strategies designed for a particular geographic location or ecosystem.

2. Biodiversity Risk Assessment and Control Measures

S.No.	Activities	Risk	Risk Likelihood	Risk Severity	Risk Score	Risk Level	Mitigation Measures
1	Change in Land use	1. Loss of habitats / Habitat fragmentation 2. Loss of Flora & fauna 3. Migration of Local species	3 Likely	3 Major	9	High risk	1. Restoration of the affected areas/ecosystem
2	Vegetation removal	1. Loss of Flora/Fauna	1 Unlikely	2 Medium	2	Low risk	1. Transplant or relocate tree 2. Replantation
3	Value chain/ Transportation	1. Loss of habitats/ vegetation 2. Loss of animal lives	1 Unlikely	2 Medium	2	Low risk	1. Development of green belt on sides of roads 2. Proper fencing and crossing structure
4	Illumination / Noise	1. Affect the habitat 2. Affect the lifestyle of local species	2 Moderate	2 Medium	4	Medium risk	1. Development of green belt along the alignment of company Premises
5	Air pollution	1. Affect air quality of the habitat	1 Unlikely	2 Medium	2	Low risk	1. Air pollution control equipment's 2. Complying Air emission standards
6	Effluent Disposal	1. Affect marine life 2. Water Pollution	3 Likely	3 Major	9	High risk	1. Treated effluent disposal as per standards

LIKELIHOOD	3 Likely	3	6	9
	2 Moderate	2	4	6
	1 Unlikely	1	2	3
		1 Minor	2 Medium	3 Major
Severity				

LEGEND	1 to 3	Low Risk
	4 to 6	Moderate Risk
	7 to 9	High Risk