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IMPACT ON ENVIRONMENT AFTER COVID-19 & SUSTAINABLE DEVELOPMENT



Anita Jeph

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Various issues of Loss of Biodiversity in Rajasthan

Hans Raj Parihar*

Introduction

Biodiversity is (Biological + Diversity) 'the variety of life on the earth'. Biodiversity describe the variety of plant and animal life that may exist in a particular area. Rich biodiversity provides sustainability to the ecosystem. Biodiversity is essential as it maintains the ecological balance of our planet. Biodiversity is also very rich in Rajasthan state. Many types of plants and animals are found in Rajasthan. Mostly Xerophytes plants are found here in plant biodiversity. In animal biodiversity, mainly species of mammals, reptiles, avian category are found here. Rajasthan is a dry climate region where rainfall is very less. There are extreme fluctuations in the weather here. Loss of biodiversity refers to the extinction of plant and animal species worldwide. It also includes the decrease in the number of a species in a certain habitat or area. In the present time, many plant species and animal species are completely extinct. Biodiversity loss creates an imbalance in our ecosystem. Many environmental issues are responsible for loss of biodiversity. There are many causes like industrialization, urbanization, pollution, pesticide etc. which are causing great harm to bio-diversity in Rajasthan. Various issues that harm biodiversity have been identified by this article.

Some major issues or causes of loss of Biodiversity are identified by the author.

- **Pollution:** Pollution is the major causes or issues of loss of biodiversity. Water pollution, air pollution, soil pollution, radiation pollution are major types of pollution. Water is polluted by industrial wastes, due to which various animals are dying. Many plants are also being destroyed due to water pollution and soil pollution. In this way, biodiversity is being harmed due to pollution.
- **Global Warming:** Pollution and some other factors are responsible for global warming. Earth's temperature is rising due to global warming. Due to the rise in temperature, many animals are unable to tolerate it and are struggling for life. Many plants are dying due to high temperature. Hence, global warming is also causing loss to biodiversity.

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- **Acid Rain:** Acid rain is the result of air pollution. Acid rain occurs due to nitrogen oxide and sulphur dioxide. Acid rain is very harmful for biodiversity. Therefore, this acidic water causes a lot of damage to many animals and plants.
- **Pesticides:** Now a days most of the farmers are using pesticides for high production. Pesticides are very harmful for everyone. Pesticides are major reasons of the loss of Biodiversity. Many birds have become extinct due to these pesticides.
- **Modernization:** The fast growing and developing sectors like industrial sectors, IT sectors, agriculture sectors and construction sectors are also responsible for the decreasing of Biodiversity.
- **Hunting:** Hunting is another issue for extinction of animal species. Many animal species have become extinct due to hunting; therefore, efforts should be made to stop hunting of animals.
- **Shortage of Natural Habitat:** At present modernization and urbanization are increasing so that natural habitats are decreasing for Biodiversity. In this region many types of farming are done on large scale so there is not any large forest area.
- **Shortage of Water Areas:** Rajasthan is a desert region and there is lack of water resources. Many organisms die due to lack of water. Many plants also dry up due to lack of water, so this is a big issue for loss of biodiversity in this area.
- **Over Exploitation of Natural Resources:** At this time the exploitation of natural resources has increased. Due to over exploitation of natural resources some time many species become endangered and vulnerable which may extinct in near future. Hence, biodiversity is harmed due to excessive exploitation of natural resources.
- **Unemployment & Trading:** Here some people also trade many animals and their organs, due to which many animals are extinct. Some people cut down trees causing damage to plant biodiversity.
- **Lack of Awareness:** There is less awareness about the importance of biodiversity here, due to which bio-diversity is being lost.

Recommendations for conservation of Biodiversity

- Use of insecticides should be controlled and minimum in quantity.
- Renovation of water bodies.
- Wild life act should be strictly followed.
- Develop new water areas.
- Awareness for biodiversity conservation should be spread.

Conclusion

In this paper it is found that many issues are responsible for loss of Biodiversity. Biodiversity is continued to fall in the Rajasthan. Many issues are responsible for loss of Biodiversity such as Climate Changes, many types of Pollutions, loss of Natural Habitat, Modernization, Acid Rain, Global Warming, Shortage of Water areas, use of Pesticides, lack of Awareness, Hunting, Trading and other Environmental issues were identified in this paper.

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About the Editor

Anita Jeph, Assistant Professor, Department of Botany, Government Girls College, Jhunjhunu. She has qualified M.Sc., M. Phil. from MGSU Bikaner. She has 13 years teaching experience. She has attended and presented papers in many conferences, seminars and workshops. She has published 12 papers in referred and UGC approved National and International journals. She has authored 2 book "Ecology and environment" and "A Textbook of Algae and Bryophyta". She is pursuing Ph.D. on "Biodiversity & Ethno-botanical study of Plants Traditionally used in Jhunjhunu district: A Part of Indian Thar Desert".



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