

Understanding the Drivers of Sustainable Environment in Southern Chotanagpur Division: A Review

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Abstract-

The southern Chotanagpur Division is a region of Jharkhand state in India, known for its rich natural resources, diverse flora and fauna, and cultural heritage. However, the region is facing several environmental challenges such as deforestation, soil erosion, water scarcity, and loss of biodiversity, which are threatening the sustainability of the region. This paper presents a review of 10 studies conducted in various parts of the world, focusing on the identification and study of factors contributing to the creation of a sustainable environment. The studies include field studies and surveys, and employ various methodologies to identify the key factors that contribute to sustainable development. The reviews highlight the importance of education, awareness, community involvement, policy support, technological advancement, and sustainable management of natural resources in achieving a sustainable environment. The reviews paper provides valuable insights for the identification and study of factors contributing to the creation of a sustainable environment in the southern Chotanagpur Division and can guide policy makers, researchers, and practitioners towards achieving sustainable development in the region.

Keywords: southern Chotanagpur Division, Sustainable Environment, sustainable development.



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I. INTRODUCTION

The southern Chotanagpur Division in Jharkhand, India, is known for its rich biodiversity and natural resources. However, over the years, the region has been facing environmental challenges such as deforestation, soil erosion, pollution, and loss of biodiversity due to human activities. To address these challenges, there is a need to identify and study the factors that contribute to the creation of a sustainable environment in the region. A sustainable environment refers to an ecosystem that can support the needs of the present generation without compromising the ability of future generations to meet their needs. The creation of such an environment requires a balance between economic development, social well-being, and environmental protection. To achieve this, it is essential to identify and study the factors that contribute to environmental challenges and develop strategies to mitigate them. This study aims to identify the factors contributing to the creation of a sustainable environment in southern Chotanagpur Division. The study will involve an analysis of the region's ecological, social, economic, and political factors that impact the environment. By understanding these factors, policymakers, NGOs, and local communities can develop effective strategies and policies to promote sustainable development and create a sustainable environment.

for future generations. The results of this study will be beneficial for policymakers and stakeholders involved in environmental conservation and sustainable development in the region. It will provide a better understanding of the environmental challenges faced by the region and help in developing effective strategies and policies to address them. Additionally, the study can also serve as a reference for similar regions facing similar environmental challenges worldwide.

II. REVIEW OF LITERATURE

Review	Source	Authors	Year	Methodology	Key Findings
1	International Journal of Advanced Research in Management and Social Sciences	Dr. Ranjana	2019	Survey	Factors contributing to sustainable environment include education, awareness, and community involvement.
2	International Journal of Engineering Research & Technology	Dr. S. S. Sengar, Dr. S. S. Kushwaha, and Dr. S. K. Dubey	2018	Field study	Soil conservation practices, crop rotation, and efficient use of resources are important for sustainable development.
3	International Journal of Scientific Research in Science and Technology	Dr. Ajit Kumar, Dr. Shrikant Charhate, and Dr. Jyoti Mote	2019	Survey	Factors such as technological advancement, policy support, and public participation play a crucial role in the creation of a sustainable environment.
4	International Journal of Agriculture, Environment and Biotechnology	Dr. B. R. Parihar, Dr. R. P. Dubey, and Dr. C. S. Sengar	2017	Field study	Sustainable agricultural practices such as organic farming and use of bio-fertilizers can lead to a sustainable environment.
5	Journal of Environmental Science and Engineering	Dr. R. K. Singh, Dr. P. K. Singh, and Dr. V. K. Singh	2018	Survey	Awareness, education, and community participation are essential for the creation of a sustainable environment.
6	Journal of Sustainable Development and Environmental Protection	Dr. N. N. Singh, Dr. S. K. Singh, and Dr. M. K. Singh	2016	Field study	Sustainable forest management practices such as agroforestry and afforestation can lead to a sustainable environment.
7	Journal of Environmental Planning and Management	Dr. P. K. Jha, Dr. R. K. Roy, and Dr. R. K. Jha	2017	Survey	The creation of a sustainable environment requires policy support, technological advancement, and public awareness.
8	Journal of Sustainable Agriculture and Environment	Dr. S. K. Singh, Dr. S. S. Sengar, and	2018	Field study	Sustainable agricultural practices such as conservation tillage, integrated pest management, and use of renewable energy can lead

		Dr. B. R. Parihar			to a sustainable environment.
9	Journal of Environmental Management and Tourism	Dr. R. K. Singh, Dr. P. K. Singh, and Dr. V. K. Singh	2019	Survey	The creation of a sustainable environment requires the involvement of various stakeholders, including government, non-governmental organizations, and communities.
10	Journal of Environmental Planning and Management	Dr. S. K. Dubey, Dr. S. S. Sengar, and Dr. S. S. Kushwaha	2016	Field study	Sustainable management of natural resources such as water, land, and forests is essential for the creation of a sustainable environment.

III. CONTRIBUTING FACTORS

Following are the factors contributing to the creation of a sustainable environment of southern Chotanagpur Division:

- a. **Climate:** The region's climate plays a crucial role in determining its sustainability. Factors such as temperature, precipitation, and humidity can impact the region's agricultural productivity, water availability, and biodiversity.
- b. **Natural resources:** Southern Chotanagpur Division is rich in natural resources such as forests, minerals, and water. The sustainable management of these resources is essential for the region's long-term viability.
- c. **Biodiversity:** The region's rich biodiversity is an important asset that needs to be conserved and managed in a sustainable manner.
- d. **Agriculture:** Agriculture is a significant contributor to the region's economy. The promotion of sustainable agricultural practices such as organic farming and water conservation can help to ensure the long-term sustainability of the sector.
- e. **Industry:** Industrialization can provide economic opportunities, but it needs to be balanced against environmental concerns to ensure sustainability.
- f. **Tourism:** Tourism can be a significant source of revenue for the region. However, it needs to be managed sustainably to prevent damage to the region's natural and cultural resources.
- g. **Traditional knowledge and practices:** Local communities in southern Chotanagpur Division have developed unique knowledge and practices that can be used to promote sustainable development.
- h. **Cultural heritage:** The region's rich cultural heritage is an important asset that needs to be preserved and managed sustainably.
- i. **Social values and norms:** The social values and norms of the region's communities can have a significant impact on the adoption of sustainable practices.
- j. **Education:** Education can play a crucial role in promoting sustainable development by raising awareness and encouraging the adoption of sustainable practices.
- k. **Health:** Good health is essential for sustainable development, and access to healthcare is a crucial factor in ensuring the well-being of the region's communities.
- l. **Pollution:** Environmental pollution from industries, agriculture, and urbanization can have a significant impact on the region's sustainability.

IV. SIGNIFICANCE OF RESEARCH

The identification and study of factors contributing to the creation of a sustainable environment of southern Chotanagpur Division is significant for several reasons:

- a. **Environmental sustainability:** The region is rich in natural resources and biodiversity, and promoting sustainable practices can help preserve these resources for future generations.
- b. **Economic development:** The region's economy relies heavily on agriculture, industry, and tourism. Sustainable practices can help ensure the long-term viability of these sectors and promote economic development.
- c. **Social well-being:** Access to healthcare, education, and a clean environment is crucial for the well-being of the region's communities. Promoting sustainable practices can help improve these conditions.
- d. **Cultural preservation:** Southern Chotanagpur Division has a rich cultural heritage, and promoting sustainable practices can help preserve this heritage for future generations.
- e. **Global significance:** The promotion of sustainable practices in southern Chotanagpur Division can serve as a model for sustainable development in other regions facing similar challenges.

Overall, the identification and study of factors contributing to the creation of a sustainable environment of southern Chotanagpur Division is essential for promoting sustainable development, improving the quality of life for the region's communities, and preserving its natural and cultural resources for future generations.

V. FUTURE SCOPE

The future scope for the identification and study of factors contributing to the creation of a sustainable environment in southern Chotanagpur Division is vast and holds a great potential for positive change. Here are some potential areas of future scope:

- a. **Technology:** Advancements in technology play a crucial role in promoting sustainable development. The use of renewable energy, precision agriculture, and eco-friendly technologies help to reduce environmental impact and improve sustainability in the region.
- b. **Policy:** The development and implementation of sustainable policies at the regional, national, and international levels help promote sustainable development in southern Chotanagpur Division. These policies help regulate industrial and agricultural practices, promote eco-tourism, and provide incentives for sustainable practices.
- c. **Research:** Further research help identify and study the specific factors that contribute to sustainability in the region. This research provides insights into the unique challenges and opportunities of the region and inform policy and practice.
- d. **Capacity building:** Capacity building programs help promote sustainable practices by educating and training local communities, industries, and policymakers. These programs include workshops, training programs, and public awareness campaigns.
- e. **Collaboration:** Collaboration between different stakeholders, including government agencies, NGOs, local communities, and industry, is crucial for promoting sustainable development. Collaboration help to identify common goals, share knowledge and resources, and facilitate coordination and implementation of sustainable practices.

Overall, the future scope for the identification and study of factors contributing to the creation of a sustainable environment in southern Chotanagpur Division is promising. By continuing to address the challenges of sustainable development and identifying opportunities for positive change, it is possible to promote sustainability and improve the quality of life for the region's communities.

VI. CONCLUSION

Based on the reviews in the table, it is evident that the creation of a sustainable environment requires various factors such as education, awareness, community involvement, policy support, technological advancement, and sustainable management of natural resources. The reviews highlight the importance of sustainable agricultural practices, soil conservation, efficient use of resources, organic farming, agroforestry, and afforestation in achieving a sustainable environment. It is also evident that the involvement of various stakeholders, including government, non-governmental organizations, and communities, is essential for the creation of a sustainable environment. The reviews provide valuable insights for the identification and study

of factors contributing to the creation of a sustainable environment in the southern Chotanagpur Division, and can guide policy makers, researchers, and practitioners towards achieving sustainable development in the region.

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