

Ethnobotany: A window into human-environment dynamics

Preeti Mishra* & Jyoti Kumar

University Department of Botany, Ranchi University, Ranchi, Jharkhand, India

Received : 21st May, 2023 ; Revised : 24th June, 2023 DOI:-https://doi.org/10.5281/zenodo.12207124

Abstract- This article explores the profound interplay between ethnobotany, indigenous traditional knowledge, and the lives of the tribals in Jharkhand and India. Ethnobotany, as an interdisciplinary field, delves into the multifaceted relationships between humans and plants, illuminating the cultural, social, economic, and ecological dimensions of this intricate dance. Indigenous communities, particularly tribals, emerge as custodians of a rich repository of traditional knowledge, contributing significantly to human development. The multidisciplinary scope of ethnobotany is pivotal in understanding the profound connections between humans and the environment. It extends beyond the utilitarian aspects of plant usage to encompass cultural practices, rituals, and social dynamics. Indigenous traditional knowledge, a living legacy passed down through generations, forms the bedrock of sustainable practices. This knowledge, deeply rooted in the local environment and culture, is a reservoir of adaptive strategies crucial for navigating environmental challenges. It also focusses on the tribals of Jharkhand, showcasing their unique cultural identities and traditions intricately woven into the natural surroundings. Their cultural practices, deeply linked to nature, serve as a testament to the symbiotic relationship between tribal communities and their environment. Traditional healing practices, incorporating plant-based remedies and spiritual rituals, reflect a holistic approach that addresses not only physical symptoms but also spiritual and emotional well-being. Tribal sustainability faces challenges such as land alienation and displacement due to development projects. The preservation of tribal culture is highlighted as vital for ensuring the sustainability of indigenous communities, fostering a sense of identity and pride. The historical practice of sustainable resource management by tribals provides valuable insights for addressing contemporary global environmental challenges. The pursuit of sustainable development requires the integration of indigenous knowledge into mainstream policies. Empowering tribal communities through access to education, healthcare, and economic opportunities, while respecting cultural values, is crucial for fostering self-reliance and sustainable growth. Striking a balance between conservation and development is emphasized as a key challenge that necessitates strategies respecting the rights of tribal communities.

Key words: Indigenous, Traditional Knowledge, Sustainable development

INTRODUCTION

Jharkhand, a state in Eastern India, is home to a diverse range of tribal communities, each with its own unique culture, traditions, and indigenous knowledge systems. The tribes of Jharkhand consist of 32 tribes.

The Scheduled Tribe (ST) population of Jharkhand State is as per 2001 census 7,087,068 constituting 26.3 per

*Corresponding author :

Phone : 8092150954

E-mail : preetiheaven01@gmail.com

cent of the total population (26,945,829) of the State. The Scheduled Tribes are primarily rural as 91.7 per cent of them reside in villages. District wise distribution of ST population shows that Gumla district has the highest proportion of STs (68.4per cent). The STs constitute more than half of the total population in Lohardaga and Pashchimi Singhbhum districts whereas Ranchi and Pakur districts have 41.8 - 44.6 per cent tribal population. Koderma district (0.8 percent) preceded by Chatra (3.8 per

Biospectra : Vol. 18(2), September, 2023

An International Biannual Refereed Journal of Life Sciences

cent) has the lowest proportion of the STs Population. Jharkhand has 32 tribal groups; Munda, Santhal, Oraon, Kharia, Gond, Kol, Kanwar, Savar, Asur, Baiga, Banjara, Bathudi, Bedia, Binjhia, Birhor, Birjiali, Chero, Chick-Baraik, Gorait, Ho, Karmali, Kharwar, Khond, Kisan, Kora, Korwa, Lohra, Mahli, Mal-Paharia, Parhaiya, Sauria-Paharia, Bhumij.¹⁻⁶

These tribal communities have a deep connection with the land and nature, and their indigenous knowledge is often closely tied to sustainable living, agriculture, and resource management. Ethno botany serves as a crucial lens through which we can examine the intricate relationships between humans and their environment. It encapsulates the study of how different cultures interact with the plant kingdom, revealing not only the practical uses of plants for sustenance and medicine but also the deeply rooted cultural and spiritual connections that exist. By delving into ethnobotany, we gain insights into the ways in which communities have adapted to and shaped their environments over generations.

Indigenous Traditional Knowledge: A Living Legacy

Indigenous traditional knowledge, passed down through oral traditions and experiential learning, is a living legacy of profound importance. This knowledge encompasses the collective wisdom of indigenous communities, offering a holistic understanding of the environment, sustainable practices, and the inter connectedness of all living things. It is a repository of timetested solutions to environmental challenges and a testament to the adaptability and resilience of human societies.⁷⁻¹⁰

Tribals of Jharkhand and India: Custodians of Wisdom

The tribals of Jharkhand and India stand as custodians of a rich cultural heritage and deep ecological wisdom. Their lives are intricately woven into the fabric of nature, and their traditional knowledge reflects a harmonious coexistence with the environment. From agricultural practices attuned to local ecosystems to medicinal knowledge derived from the diverse flora surrounding them, tribals exemplify a symbiotic relationship with nature that has sustained them for centuries.¹¹⁻¹²

Sustainable Living and Holistic Well-being

The insights offered by tribal communities extend beyond mere survival; they embody principles of sustainable living and holistic well-being. The inter connectedness of cultural practices, spirituality, and environmental awareness creates a framework where every aspect of life is considered in relation to the natural world. This holistic approach to well-being not only ensures physical health but also fosters mental, emotional, and spiritual harmony.¹⁴

Cultural Preservation: More Than a Nostalgic Endeavor

Recognizing and respecting indigenous knowledge is not merely an act of preserving cultural artifacts; it is a dynamic engagement with wisdom that has the potential to shape a more sustainable and harmonious future. The preservation of cultural practices, languages, and traditions is a testament to the diversity of human experience. Moreover, it serves as a reservoir of adaptive strategies that can be invaluable in the face of contemporary global challenges, including climate change, biodiversity loss, and social inequality.¹⁵

A Pathway to a Sustainable and Harmonious Future

In the ongoing narrative of development, acknowledging the wisdom embedded in the traditions of tribal communities becomes a pathway to a more sustainable and harmonious future for all of humanity. The challenges of modernity, often marked by environmental degradation and cultural homogenization, necessitate a reevaluation of the ways in which we approach development. Embracing indigenous knowledge offers an alternative paradigm that emphasizes the importance of living in harmony with nature, fostering resilience, and maintaining cultural diversity.

Navigating the Complexities of Development

As we navigate the complexities of development, it is imperative to consider the role of indigenous knowledge in shaping more inclusive and sustainable strategies. Traditional practices in agriculture, resource management, and healthcare, rooted in the accumulated wisdom of generations, can inform modern solutions that are ecologically sound and culturally sensitive. Collaborative efforts that involve indigenous communities in decisionmaking processes contribute not only to the preservation of their way of life but also to the creation of more equitable and sustainable development pathways.¹⁶

Embracing Wisdom for Cultural Diversity and Environmental Sustainability

Embracing the wisdom embedded in the traditions of tribal communities is a call to action for fostering a world where cultural diversity and environmental sustainability go hand in hand. It is an invitation to bridge the gap between traditional and contemporary knowledge systems, recognizing the complementary strengths they offer. In this vision, development is not a force that erodes cultural identities and depletes natural resources but a harmonious process that integrates the best of both worlds.¹⁷

CONCLUSION

The intersection of ethnobotany, indigenous traditional knowledge, and the lives of the tribals of Jharkhand and India creates a compelling narrative of interconnectedness and sustainability. The importance of ethnobotany lies not only in its role as a scientific discipline but also as a bridge that connects human culture, traditional wisdom, and the environment. The tribals, with their rich cultural heritage and ecological wisdom, offer not just a window into the past but a guiding light towards a more sustainable and harmonious future.

Recognizing and respecting indigenous knowledge is more than a gesture of cultural preservation; it is a dynamic engagement with wisdom that holds the potential to shape a future where humanity coexists with nature in a mutually beneficial relationship. As the complexities of development unfold, the call to embrace the wisdom embedded in the traditions of tribal communities becomes a rallying cry for a world where cultural diversity and environmental sustainability are not mutually exclusive but rather interconnected strands weaving the fabric of a thriving global community. In navigating the intricate dance between progress and preservation, let us walk hand in hand with the wisdom of the tribals, fostering a world where the richness of cultural diversity flourishes alongside the resilience of our shared environment.

ACKNOWLEDGEMENT

I would like to express my gratitude to the Head, University Department of Botany, Ranchi University and all the faculty members and staffs for their valuable suggestions and encouragement.

REFERENCES

- 1. Varghese E. 1996. Applied Ethnobotany, Delhi, Deep Publications.
- 2. https://www.jharkhand.gov.in/home/About Tribals
- 3. Patnaik N. F. Bara and A. Mall 1986. Herbal medicines of Dongrias. *Adibasi.* 26:1-4.

- 4. Jharkhand. 2006. A trasure trove of Herbal plants and forest produce, April 2006. pp 22-40.
- 5. https://ncst.nic.in/sites/default/files/2022/SAMVAD/ SAMVAD%204.pdf
- 6. https://www.trijharkhand.in/en/tribes-of-jharkhand
- Vidhyarthy Anil Kumar and Gupta H. S. 2004. Ethnomedicinal study of some important plants of Jharkhand and their conservation. *Indian Forester*. 130(2):149-156.
- Verma S. K. and Pandey A. K. 1990. Ethnobotanical notes on certain medicinal plants used by the tribals of Lohardaga district, Bihar. *J. econ. taxon. Bot.* 14(2):329-333.
- 9. H Singh. Ethno-Medicinal plants of Jharkhand, India'. Aavishkar Publishers, Jaipur. Herbal cures: Traditional Approach, pp.248-263, Research Gate, https:// www.researchgate.net/publication/303231067_ ETHNOMEDICINAL_PLANTS_OF_JHARKHAND _INDIA
- K. Anand. 2019. Medicinal plants of Jharkhand. Society for science and nature. *Global journal of bio-science and biotechnology*. 8(3): 2019, pp. 254-258, https:// www.researchgate.net/publication/334545533_ MEDICINAL_PLANTS_OF_JHARKHAND
- Dr. R. Maitra. 2016. Tribal communities of India:A case study of Oraon Community. *The Researchers*. 2(1): 2016,? https://theresearchers.asia/Papers/Vol-II,% 20Issue-I/Tribal%20communities%20of%20India-%20A%20case%20study%20of%20Oraon%20 community.pdf
- 12. C.R.Magesh and Naaz Rizvi. 2017. Indegenous knowledge of Santhal tribes of dalma wildlife sanctuary, Jharkhand, India. *Internation journal of scientific research*, 6(10): 2017, https://www.worldwidejournals. com/international-journalof-scientific-research (IJSR)/ article/indigenous-knowledge-of-santhal-tribes-ofdalma-wildlife-sanctuary-jharkhandindia/MTIzMzA=/ ?is=1&b1=89&k=23
- 13. Holfmann J. B. 1998. Encyclopaedia Mundarica, Delhi. Gyan publishing house. 16:39-78.

Biospectra : Vol. 18(2), September, 2023

An International Biannual Refereed Journal of Life Sciences

- **14. Kurian J. & C. Kurian. 1995.** Plants that Heal, Oriental watchman Publishing House Pune.
- 15. Pal, D. C. & S. K. Jain. 1998. Tribal Medicine, Calcutta. Naya Prokash.
- Choudhury Rai, H. N. D. C. Pal and C. R. Tarafdir. 1975. Less known uses of some plants from the tribal area of Orissa, *Bull. Bot. Survey India*. 17:132-136.
- 17. https://www.trijharkhand.in/en/tribes-of-jharkhand
