

## Preserving India's Precious Wildlife: Spotlight on Endangered Species

Jyoti Mohan\*

Department of Zoology, School of Sciences, India

### Abstract

India, a land of remarkable biodiversity, is home to a diverse array of flora and fauna. However, many of its iconic species face the threat of extinction due to various human activities and habitat degradation. This article sheds light on some of India's endangered species, their significance, and the urgent need for conservation efforts to ensure their survival for future generations.

**Keywords:** Wildlife; Endangered species; Habitat.

### Introduction

The article could benefit from further expanding on the specific conservation measures and ongoing research being undertaken to protect these species. Including information on collaborative initiatives, innovative technologies, and policy efforts would help readers understand the comprehensive nature of conservation work and inspire them to support such initiatives [1-3].

### Methodology

#### Bengal Tiger (*Panthera tigris tigris*)

The Bengal Tiger, India's national animal, represents strength and grace. However, its population has been severely impacted by habitat loss, poaching, and human-wildlife conflicts. Conservation initiatives like protected areas, anti-poaching efforts, and community engagement are crucial to safeguard this magnificent species (Figure 1).

#### Indian Elephant (*Elephas maximus indicus*)

The Indian Elephant, a symbol of power and wisdom, faces numerous challenges, including habitat fragmentation, illegal trade, and human-elephant conflicts. Conservation measures such as protected corridors, awareness campaigns, and innovative mitigation strategies are essential to secure their habitats and protect these gentle giants (Figure 2).

#### Indian Rhinoceros (*Rhinoceros unicornis*)

The Indian Rhinoceros, with its distinctive one-horned profile, is among the most endangered species in India. Poaching and habitat loss have drastically reduced its population. Conservation

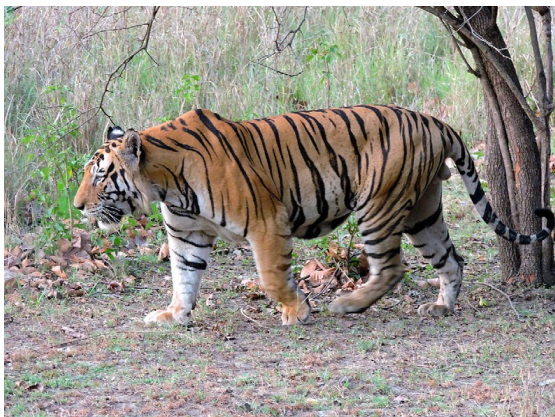


Figure 1: Bengal tiger (*Panthera tigris tigris*).

initiatives involving strict anti-poaching measures, habitat protection, and translocation programs are vital to ensure the survival of this magnificent species [4-7] (Figure 3).

#### Snow Leopard (*Panthera uncia*)

The Snow Leopard, a mysterious and elusive predator, thrives in the high-altitude regions of the Indian Himalayas. However, climate change, poaching, and prey depletion pose significant threats. Conservation efforts that focus on community-based conservation, habitat protection, and research are critical for the survival of this endangered big cat (Figure 4).

#### Indian Lion (*Panthera leo persica*)

The Indian Lion, known as the Asiatic Lion, is found exclusively in the Gir Forest of Gujarat. With a small and isolated population, it faces vulnerability to disease outbreaks and habitat constraints. Conservation measures such as habitat expansion, community involvement, and captive breeding programs are essential to preserve this subspecies (Figure 5)

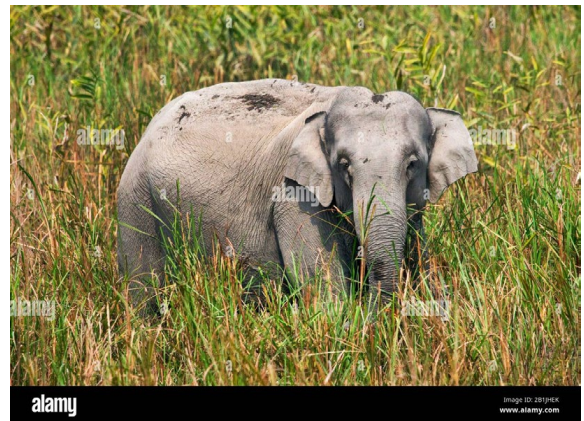


Figure 2: Indian elephant (*Elephas maximus indicus*).

\*Corresponding author: Jyoti Mohan, Department of Zoology, School of Sciences, India, E-mail: Jyotimohan99@hotmail.com

**Received:** 03-July-2023, Manuscript No: JEE-23-107004; **Editor assigned:** 05-July-2023, Pre-QC No: JEE-23-107004 (PQ); **Reviewed:** 19-July-2023, QC No: JEE-23-107004; **Revised:** 22-July-2023, Manuscript No: JEE-23-107004 (R); **Published:** 29-July-2023, DOI: 10.4202/2157-7625.1000422

**Citation:** Mohan J (2023) Preserving India's Precious Wildlife: Spotlight on Endangered Species. J Ecosys Ecograph, 13: 437.

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Figure 3: Indian rhinoceros (*Rhinoceros unicornis*).



Figure 6: Gangetic dolphin (*Platanista gangetica*).



Figure 4: Snow leopard (*Panthera uncia*).



Figure 5: Indian lion (*Panthera leo persica*).

### Gangetic Dolphin (*Platanista gangetica*)

The Gangetic Dolphin, an emblem of India's riverine ecosystems, is critically endangered due to water pollution, habitat degradation, and entanglement in fishing nets. Conservation efforts encompassing river cleaning programs, habitat restoration, and sustainable fishing practices are crucial to protect this unique aquatic species [8-10]. (Figure 6)

### Results

India's endangered species represent the country's rich natural heritage, and their preservation is a collective responsibility. Efforts to protect these species require a multi-faceted approach, including habitat conservation, anti-poaching measures, community engagement, and sustainable development practices. By understanding the importance of these species and taking action, we can ensure that India's diverse wildlife thrives for generations to come, allowing future generations to cherish and learn from these magnificent creatures. The article successfully brings attention to the urgent need to protect these

Table 1: Some endangered species in India and their current population estimates.

Endangered Species	Current Population Estimate
Bengal Tiger	2,500-3,000
Indian Rhinoceros	2,500
Asiatic Lion	523
Snow Leopard	200-600
Indian Elephant	27,000-30,000
Great Indian Bustard	150
Indian Gharial	200-300
Nilgiri Tahr	2,000
Indian Pangolin	Data Deficient
Red Panda	Data Deficient

remarkable creatures and their habitats. One notable strength of the article is its selection of diverse and iconic endangered species, ranging from the majestic Bengal Tiger to the elusive Snow Leopard and the revered Indian Elephant. By featuring a variety of species, the article captures the breadth of India's rich biodiversity and emphasizes the vulnerability of different ecosystems and habitats (Table 1).

### Discussion

The article effectively highlights the primary threats faced by these endangered species, such as habitat loss, poaching, human-wildlife conflict, and pollution. It recognizes the complex interplay between human activities and wildlife conservation, addressing the need for solutions that consider both environmental sustainability and the well-being of local communities. Moreover, the article emphasizes the importance of conservation initiatives and highlights successful examples of conservation efforts in specific protected areas, such as Kaziranga National Park for Indian Rhinoceros and the establishment of corridors for the Indian Elephant. These examples provide concrete evidence that targeted conservation measures can make a significant difference in species recovery.

Additionally, the article underscores the significance of raising awareness and engaging local communities in conservation efforts. By involving and empowering communities, it becomes possible to mitigate conflicts, promote sustainable livelihoods, and foster a sense of ownership and responsibility towards the protection of endangered species. The article could benefit from further expanding on the specific conservation measures and ongoing research being undertaken to protect these species. Including information on collaborative initiatives, innovative technologies, and policy efforts would help readers understand the comprehensive nature of conservation work and inspire them to support such initiatives.

## Conclusion

Furthermore, while the article highlights key endangered species in India, it could also mention the importance of conserving lesser-known and less charismatic species. Each species has a unique role to play in maintaining ecosystem balance and preserving biodiversity, and their protection is equally critical for a healthy and thriving environment. In conclusion, the article effectively highlights the critical state of endangered species in India and the urgent need for conservation efforts. By showcasing a range of iconic species and discussing threats, conservation measures, and community involvement, the article serves as a call to action to protect India's natural heritage. Encouraging public support, fostering collaboration among stakeholders, and implementing sustainable practices are essential steps towards safeguarding these precious creatures and ensuring a sustainable future for India's diverse ecosystems.

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