A Geographical Study of Tiger Projects in India

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Abstract

Tiger is the National Animal Of India. It is on the border of extinction since the era of later 19th century.It is considered as on of the most Endangered Species found in the world. Its zoological name is Panthera tigris.

Project Tiger is a tiger conservation programme launched in 1973 by the Government of India during Prime Minister Indira Gandhi's tenure. The project aims at ensuring a viable population of Bengal tigersin their natural habitats and also to protect them from extinction, and preserving areas of biological importance as a natural heritage forever represented as close as possible the diversity of ecosystems across the tiger's distribution in the country. The project's task force visualized these tiger reserves as breeding nuclei, from which surplus animals would migrate to adjacent forests. The Funds and commitment were mastered to support the intensive program of habitat protection and rehabilitation under the project. There are total 39 wildlife reserviours for tigers in India.

Introduction

21st Century Tiger are working with ZSL and UCL to support Indian tiger projects. Home to the largest wild tiger population in the world, the latest tiger census (2010) suggests that there are over 1700 Indian tigers living in 39 tiger reserves. They live in a wide range of habitats including the high-altitude, cold, coniferous Himalayan forests, the steaming mangroves of the Bangladesh Sunderbans, the swampy reedlands, the scorched hills of the Indian peninsula, the lush wet forests of Northern India and the arid forests of Rajasthan.

During the tiger census of 2006, a new methodology was used extrapolating site-specific densities of their co-predators and prey derived tigers, from camera trap and sign surveys using GIS. Based on the result of these surveys, the total tiger population has been estimated at 1,411 individuals ranging from 1,165 to 1,657 adult and sub-adult tigers of more than 1.5 years of age. Owing to the project, the number of tigers has improved to 2,226 as per the latest census report released on 20 January 2015.

What is project tiger?



Launched on April 1973 Project Tiger has successfully emerged as one of the champion endeavors of Tiger conservation as formulated by a special task force set up under Wildlife Conservation Act to address the problem of dwindling Tiger population in the country.

Though the initial push for the action was constituted by the growing concern to protect the Royal Bengal Tigers, the disturbing data presented by the 1972 All India Tiger Census, which enumerated the Tiger population at an alarming 1,827 as compared to the figure of 40,000 present at the turn of 20th century called for immediate action to curb the progressive decline of wilderness resulting in the disturbance of viable tiger habitats.

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Project Tiger was first launched at the Corbett National Park in Uttaranchal. In the year 1973-74 there were nine national parks that were declared as the part of the Project Tiger. That were Manas, Bandipur, Ranthambore, Palamau, Similipal, Corbett, Kanha, Melghta, and Sundarbans. While the number increased to twenty nine in 2006, falling in 17 different states around the country.

The total area which is covered by these Project Tiger Reserves is approximately around 38, 620 km2 , which is 1,17 % of the total geographical area of the country. With the view to provide the legal backing to the scheme of the Project Tiger, National Tiger Conservation Authority (NTCA), a statutory body under the Ministry of Environment and Forests, was even set up for the protection of Tigers in the country.

Objectives

Project tiger's main aim was to:

• Limit factors that leads to reduction of tiger habitats and to mitigate them by suitable management. The damages done to the habitat were to be rectified so as to facilitate the recovery of the ecosystem to the maximum possible extent.

• To ensure a viable population of tigers for economic, scientific, cultural, aesthetic and ecological values.

The Indian tiger population at the turn of the 20th century was estimated at 20,000 to 40,000 individuals. The first country-wide tiger census conducted in 1972 estimated the population to comprise a little more than 1,800 individuals, a reduction in tiger population.

List of tiger reserves in India

		. 11
Assam	Kaziranga Tiger Reserve	
	Manas Tiger Reserve	
	Nameri Tiger Reserve	Miz
Arunachal Pradesh	Namdapha Tiger Reserve	Odi
	• Pakhui Tiger Reserve	
Andhra Pradesh	• Nagarjunsagar- Srisailam Tiger Reserve	Raja
Bihar	• Valmiki Tiger Reserve	

	Achanakmar Tiger Reserve	
Chhattisgarh	 Indravati Tiger Reserves 	
	Udanti & Sitanadi Tiger Reserve	
Jharkhand	Palamau Tiger Reserve	
Karnataka	Bandipur Tiger Reserve	
	Nagarhole (extension) Tiger Reserve	
	Bhadra Tiger Reserve	
	Anshi Dandeli Tiger Reserve	
	 Biligiri Rangaswamy Temple Wildlife Sanctuary 	
Kerala	Periyar Tiger Reserve	
	Parambikulam Tiger Reserve	
	Bandhavgarh Tiger Reserve	
	Bori-Satpura Tiger Reserve	
Madhya	Kanha Tiger Reserve	
Pradesh	Panna Tiger Reserve	
	Pench Tiger Reserve	
	Sanjay Dubri Tiger Reserve	
	Melghat Tiger Reserve	
	Pench Tiger Reserve	
Maharashtra	 Tadoba Andhari Tiger Project 	
iviaria asirti a	Shahayadri Tiger reserve	
	Nagzira-Navegaon Tiger Reserve	
	Bor Tiger Reserve	
Mizoram	Dampa Tiger Reserve	
Odisha	Satkosia Tiger Reserve	
	Simlipal Tiger Reserve	
	Ranthambhore Tiger Reserve	
Rajasthan	Sariska Tiger Reserve	
	Mukundara Hills Tiger Reserve	

Tamil Nadu	 Kalakkad Mundanthurai Tiger Reserve Anamalai Tiger Reserve Mudumalai Tiger Reserve Sathyamangalam Tiger Reserve
Telangana	• Kawal Tiger Reserve • Nagarjunsagar- Srisailam Tiger Reserve
Uttar Pradesh	Dudhwa Tiger ReservePilibhit Tiger Reserve
Uttarakhand	Corbett Tiger ReserveRajaji Tiger reserve
West Bengal	Buxa Tiger ReserveSunderbans Tiger Reserve



Management

Project Tiger is administered by the National Tiger Conservation Authority. The overall administration of the project is monitored by a steering committee headed by a director. A field director is appointed for each reserve, who is assisted by a group of field and technical personnel.

- 1. Shivalik-terai conservation unit
- 2. North-East conservation unit
- 3. Sunderbans conservation unit
- 4. Western ghats conservation unit
- 5. Eastern ghats conservation unit
- 6. Central India conservation unit
- 7. Sariska conservation unit
- 8. Kaziranga Conservation Unit

The various tiger reserves were created in the country based on 'core-buffer' strategy:

Core area

The core areas are freed of all human activities. It has the legal status of a national park or wildlife sanctuary. It is kept free of biotic disturbances and forestry operations like collection of minor forest produce, grazing and other human disturbances are not allowed within.

Buffer areas

The buffer areas are subjected to 'conservationoriented land use'. It comprises forest and non-forest land. It is a multi-purpose use area with twin objectives of providing habitat supplement to spillover population of wild animals from core conservation unit and to provide site specific codevelopmental inputs to surrounding villages for relieving their impact on core area. For each tiger reserve, management plans were drawn up based on the following principles:

- Elimination of all forms of human exploitation and biotic disturbance from the core area and rationalization of activities in the buffer zone
- Restricting the habitat management only to repair the damages done to the ecosystem by human and other interferences so as to facilitate recovery of the ecosystem to its natural state
- Monitoring the faunal and floral changes over time and carrying out research about wildlife

By the late 1980s, the initial nine reserves covering an area of 9,115 square kilometers (3,519 square miles) had been increased to 15 reserves covering an area of 24,700 km² (9,500 sq mi). More than 1100 tigers

were estimated to inhabit the reserves by 1984. By 1997, 23 tiger reserves encompassed an area of 33,000 km² (13,000 sq mi), but the fate of tiger habitat outside the reserves was precarious, due to pressure on habitat, incessant poaching and large-scale development projects such as dams, industry and mines.

Wireless communication systems and outstation patrol camps have been developed within the tiger reserves, due to which poaching has declined considerably. Fire protection is effectively done by suitable preventive and control measures. Voluntary Village relocation has been done in many reserves, especially from the core, area. Live stock grazing has been controlled to a great extent in the tiger reserves. Various compensatory developmental works have improved the water regime and the ground and field level vegetation, thereby increasing the animal density. Research data pertaining to vegetation changes are also available from many reserves. Future plans include use of advanced information and communication technology in wildlife protection and crime management in tiger reserves, GIS based digitized database development and devising a new tiger habitat and population evaluation system.

Principle guidelines that were implemented for each Tiger Reserves around the country are as follows :

- Elimination of all kind of human activities and biotic disturbance from the core areas.
- Put restrictions on the habitat management to only repair those parts which have been damaged due to the human and other disturbances.
- Carrying out the research on the wildlife and floral and faunal changes from time to time.

Controversies and problems

Project Tiger's efforts were hampered by poaching, as well as debacles and irregularities in Sariska and Namdapha, both of which were reported extensively in the Indian media. The Forest Rights Act passed by the Indian government in 2006 recognizes the rights of some forest dwelling communities in forest areas. This has led to controversy over implications of such recognition for tiger conservation. Some have argued that this is problematic as it will increase conflict and opportunities for poaching; some also assert that "tigers and humans cannot co-exist". Others argue that this is a limited perspective that overlooks the reality of human-tiger coexistence and the role of abuse of power by authorities, rather than local people, in the tiger crisis. This position was supported by the Government of India's Tiger Task Force, and is also taken by some forest dwellers' organizations.

Danger to the Tigers Paradise

India is the home to the largest number of tigers in the world. But there are several threats to the paradise of the tigers. According to the estimate of the World Wide Fund (WWF), the population of Tigers has dropped to 95% in the last century. Among all the factors, poaching and shortage of prey is the biggest factor behind the dwindling population of Tigers. In the countries like China, there has been an constant demand of tiger's bones and its other body parts for the making of traditional medicines. On the other hand increasing human activities in the jungles and the loss of natural habitats are the matter of concern.

Governments role in economic prespective

According to the current news there are plans to establish eight new Tiger Reserves in the states of Tamil Nadu, Karnataka, Chattisgarh and Assam. The government of has alloted Rs 600 crore under the scheme. There are also plans to rehabilitate the denotified tribes or communities involved in the traditional haunting and crub all the unlawful activities in the reserves. After all Project Tiger is the real hope of the survival of this endangered species.

Conclusion

Tiger Sightings have become quite rare these days in India, reason being the Tiger killings because of its multitude of medical of medicinal or magical properties that that is why tiger trade is very profitable.Genuinely the tiger skin is not fashionable but the smuggling of the Tiger Fur and coats are not difficult for improvished hunters. So it is very Important to save our national animal for the danger of extinction.

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