

# Journal of Environmental Management and Tourism

## Quarterly

Volume XVI Issue 2(78) Summer 2025 ISSN 2068 – 7729 Journal DOI https://doi.org/10.14505/jemt



## Summer 2025 Volume XVI Issue 2(78)

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## Call for Papers Fall Issue 2025 Journal of Environmental Management and Tourism

Journal of Environmental Management and Tourism is an open access, peer-reviewed interdisciplinary research journal, aimed to publish articles and original research papers that contribute to the development of both experimental and theoretical nature in the field of Environmental Management and Tourism Sciences. The Journal publishes original research and seeks to cover a wide range of topics regarding environmental management and engineering, environmental management and health, environmental chemistry, environmental protection technologies (water, air, soil), pollution reduction at source and waste minimization, energy and environment, modelling, simulation and optimization for environmental protection; environmental biotechnology, environmental education and sustainable development, environmental strategies and policies.

Authors are encouraged to submit high quality, original works that discuss the latest developments in environmental management research and application with the certain scope to share experiences and research findings and to stimulate more ideas and useful insights regarding current best-practices and future directions in Environmental Management.

Also, this journal is committed to a broad range of topics regarding Tourism and Travel Management, leisure and recreation studies and the emerging field of event management. It contains both theoretical and applied research papers and encourages obtaining results through collaboration between researchers and those working in the tourism industry.

The journal takes an interdisciplinary approach and includes planning and policy aspects of international, national and regional tourism as well as specific management studies. Case studies are welcomed when the authors indicate the wider applications of their insights or techniques, emphasizing the global perspective of the problem they address.

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Deadline for submission:	15 <sup>st</sup> July 2025
Expected publication date:	August 2025
Website:	https://journals.aserspublishing.eu/jemt
E-mail:	jemt@aserspublishing.eu



DOI: https://doi.org/10.14505/jemt.v16.2(78).09

### Health and Safety in Indian Tourism: A Comprehensive Review

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Article info: Received 18 April 2025; Received in revised form 27 April 2025; Accepted 12 May 2025; Published 30 May 2025. Copyright© 2025 The Author(s). Published by ASERS Publishing 2025. This is an open access article distributed under the terms of CC-BY 4.0 license.

Abstract: The health and safety of tourists are vital for a sustainable and positive tourism experience. In India, the growing tourism industry offers immense opportunities but also presents serious challenges in managing health and safety. This review paper examines the current situation by analyzing recent literature and official reports. It highlights improvements in health infrastructure and safety awareness but notes persistent risks such as infectious diseases like malaria and dengue, especially in rural areas. Many healthcare facilities are still under-equipped to meet tourist demands. Safety concerns also include crime, poor transportation infrastructure, and natural disasters. The study identifies key areas for improvement, such as stricter enforcement of health and safety regulations, better training for tourism professionals, and investment in emergency response systems. Additionally, greater public awareness and preparedness among tourists and local communities is essential. These findings contribute to sustainable tourism development in India by offering actionable insights to improve tourist well-being and safety.

Keywords: health and safety; indian tourism; sustainable tourism; tourist risk management; public health in tourism; emergency preparedness.

JEL Classification: Z32; Q01; R11.

#### Introduction

#### Background: Importance of Tourism in India's Economy

Tourism is a cornerstone of India's economic development, contributing significantly to the nation's GDP and employment. As one of the largest and fastest-growing sectors, tourism in India encompasses a diverse range of activities, including cultural exploration, adventure travel, wellness retreats, and religious pilgrimages. The sector not only attracts millions of domestic and international tourists annually but also plays a crucial role in fostering economic growth, enhancing regional development, and promoting cultural exchange.

The economic impact of tourism extends beyond direct revenue from travel and accommodation services. It generates substantial indirect benefits through the creation of jobs in related industries such as transportation, hospitality, and retail. Furthermore, tourism contributes to foreign exchange earnings, supporting India's balance of payments and reinforcing its global economic standing.

Given its significance, ensuring the health and safety of tourists is imperative to sustain and enhance the growth of this vital sector. Effective health and safety measures not only protect tourists but also contribute to the overall reputation and competitiveness of India as a travel destination.

#### Objectives

The primary objective of this paper is to assess the current state of health and safety in Indian tourism. This involves:

• Evaluating the effectiveness of existing health and safety measures in protecting tourists.

- Identifying key health and safety challenges faced by the tourism sector.
- Analyzing the role of various stakeholders, including government agencies, tourism operators, and healthcare providers, in managing these issues.
- Providing recommendations to improve health and safety standards and practices in Indian tourism.
- By addressing these objectives, the paper aims to contribute to the enhancement of health and safety protocols, ensuring a safer and more enjoyable experience for both domestic and international visitors.

#### 1. Literature Review

The growth of tourism in India has brought with it a diverse array of challenges, particularly in the realms of health and safety, which directly influence the overall experience and satisfaction of both domestic and international travelers. The literature indicates that the presence of infectious diseases, food and water safety concerns, environmental health risks, and inadequate public health infrastructure pose significant threats to tourist wellbeing. Additionally, issues related to personal safety, emergency preparedness, and vulnerability to natural disasters further compound these concerns.

A comprehensive understanding of these challenges is crucial for policymakers, tourism planners, and local stakeholders aiming to create a safe and sustainable tourism environment. Scholars have explored various aspects of these issues, offering insights into the underlying causes, potential health impacts, and recommended interventions. The review that follows presents a synthesis of existing research, organized into key thematic areas - health challenges, environmental threats, infrastructure limitations, personal safety, and disaster preparedness. Each of these dimensions plays a critical role in shaping the perception of India as a safe and healthy travel destination.

#### 1.1 Health Challenges in Tourism Infectious Diseases

India's vibrant tourism sector faces significant health challenges due to prevalent infectious diseases such as malaria, dengue fever, and typhoid. These diseases are particularly concerning tourists who may not be familiar with local health risks or preventive measures.

**Prevalence:** Malaria and dengue fever are transmitted by mosquitoes and are common in various regions of India, especially during the monsoon season when mosquito breeding is at its peak. Typhoid fever, caused by contaminated food and water, remains a concern. The risk of these diseases is heightened in areas with inadequate sanitation and limited access to healthcare. Tourists visiting rural or less developed regions are particularly vulnerable to these health threats.

**Preventive Measures:** Effective preventive measures are crucial in mitigating these risks. Vaccination is a primary tool, with travelers advised to get vaccinated against typhoid and, in some cases, hepatitis A before their trip. Mosquito control programs are vital, including the use of insect repellents, bed nets, and insecticide sprays. Health advisories from organizations like the Centers for Disease Control and Prevention (CDC) provide essential guidance for travelers, including recommended vaccinations and precautions to avoid mosquito bites. Kumar and Verma (2019) stress the importance of continued public health efforts to control these diseases protect both tourists and local populations.

#### 1.2 Food and Water Safety

**Standards:** Food and water safety is a significant concern in Indian tourism. In many areas, particularly those with high tourist traffic, food safety regulations may not be strictly enforced, leading to an increased risk of foodborne illnesses. Dr. Gupta highlights that improper food handling, inadequate hygiene practices, and contamination of drinking water contribute to the prevalence of gastrointestinal diseases among tourists. The lack of stringent food safety standards can result in widespread issues such as food poisoning and diarrheal diseases.

**Recommendations:** To address these challenges, it is crucial to enhance food safety standards and promote safe drinking water. Implementing and enforcing stricter food safety regulations can help prevent contamination and ensure that food handling practices meet international standards. Upgrading infrastructure for water purification and distribution is also essential to provide clean and safe drinking water. Rao and Shah (2018) recommend increased training for food handlers and regular inspections of food establishments to ensure compliance with health regulations. Additionally, promoting awareness among tourists about safe eating and drinking practices can further reduce the risk of foodborne illnesses.

#### 1.3 Environmental Health

**Pollution:** Environmental health issues, such as high levels of air and water pollution, pose significant risks to tourists. Popular tourist destinations in India, including major cities and some rural areas, often experience high levels of air pollution due to industrial activities, vehicle emissions, and other factors. Water pollution, caused by inadequate waste management and industrial discharge, can also affect the health of tourists. Mehta's report in 2022 stated that pollution can exacerbate respiratory conditions, skin problems, and other health issues for both tourists and residents.

**Solutions:** Addressing environmental health risks requires a multi-faceted approach. Implementing pollution control measures, such as stricter regulations on industrial emissions and improved waste management practices, can help reduce pollution levels. Promoting eco-friendly tourism practices, such as responsible waste disposal and conservation efforts, can further mitigate the impact of tourism on the environment. Integrating environmental sustainability into tourism planning and development is essential for reducing pollution and protecting public health. Encouraging the use of clean technologies and supporting local initiatives aimed at preserving natural resources can also contribute to a healthier environment for tourists.

#### 2. Safety Concerns

#### 2.1 Infrastructure and Emergency Services

Current State: The adequacy of infrastructure and emergency services is a critical concern in Indian tourism, particularly in remote or less-developed areas. Many tourist destinations lack essential facilities such as well-maintained roads, reliable medical services, and effective emergency response systems. This inadequacy can lead to delays in providing necessary assistance during emergencies, whether they are health-related or accident- related. The lack of proper infrastructure not only affects the safety of tourists but can also impede the efforts of local authorities and first responders.

Improvements: Addressing these issues requires significant improvements in infrastructure and emergency services. Developing better road networks and ensuring timely maintenance can enhance accessibility to remote areas. Establishing and upgrading medical facilities in tourist regions, including emergency care centers and first aid stations, is essential for providing immediate assistance. Additionally, creating robust emergency response systems and training local personnel, including tour guides and hospitality staff, can improve the efficiency of emergency management. Investments in infrastructure and emergency preparedness are vital for enhancing overall safety in tourism.

#### 2.2 Crime and Personal Safety

Risks: Crime and personal safety are prominent concerns for tourists in India. Incidents of petty crime, such as pickpocketing and theft, as well as more severe cases of harassment and scams, can significantly impact the safety and experience of tourists. These issues can arise in both urban and rural areas, affecting tourists' confidence and willingness to visit certain destinations9. The perception of safety is crucial for attracting and retaining tourists, and addressing these risks is fundamental to ensuring a positive experience.

Mitigation: To mitigate these safety concerns, several measures can be taken. Enhancing law enforcement presence in tourist areas can deter criminal activities and provide a sense of security for visitors. Improved tourist information, including clear and accessible guidance on safe practices and reporting procedures, can help tourists navigate potential risks more effectively. Additionally, providing safety training for local businesses, such as hotels and tour operators, can equip them to better handle and report incidents of crime. The collaboration between local authorities and tourism stakeholders is essential for developing comprehensive safety strategies.

#### 2.3 Natural Disasters

Vulnerabilities: India's susceptibility to natural disasters, including floods, earthquakes, and landslides, presents significant risks for tourists. The geographical and climatic diversity of the country makes certain regions more prone to such events. The impact of these disasters can be severe, particularly in areas lacking adequate disaster preparedness and response measures. The vulnerability of popular tourist destinations to natural disasters can disrupt travel plans and endanger tourists' safety.

Preparedness: Effective disaster preparedness and communication are crucial for minimizing the impact of natural disasters on tourism. Establishing comprehensive disaster preparedness plans, including early warning systems and evacuation procedures, can help manage and mitigate risks. Ensuring that tourists are informed

about potential hazards and emergency protocols before and during their visit is also vital. The need for proactive measures, such as conducting regular drills and providing clear instructions to tourists, to enhance resilience and safety in the face of natural disasters.

The existing literature underscores that health and safety concerns in Indian tourism are multifaceted and deeply interlinked with infrastructure, public health systems, environmental management, and governance. Infectious diseases, unsafe food and water practices, pollution, inadequate emergency infrastructure, crime, and natural disasters collectively pose significant threats to tourist well-being. Addressing these challenges requires a holistic and collaborative approach involving public health authorities, tourism planners, local communities, and law enforcement agencies. Prioritizing sustainable development, enhancing public health infrastructure, and integrating safety protocols into tourism planning can significantly improve the safety and satisfaction of tourists while promoting long-term growth in the sector.

#### **3. Experimental Methods**

This research adopted a qualitative review methodology to examine the current state of health and safety in Indian tourism. The approach involved a structured literature review, drawing from peer-reviewed journals, official government publications, and credible institutional reports related to public health, tourism safety, and infrastructure development. The study focused on synthesizing existing knowledge to identify prevailing challenges and best practices concerning health and safety for tourists in India.

Data sources included academic databases such as Scopus, Web of Science, and Google Scholar, with articles selected based on relevance, publication recency (2018–2024), and subject alignment with the research objectives. A total of 45 scholarly articles and reports were reviewed, with 14 forming the primary basis for analysis due to their direct focus on health risks, safety management, infrastructure, and environmental factors affecting tourism.

Thematic analysis was used to categorize findings into major areas of concern - infectious diseases, food and water safety, environmental health, emergency infrastructure, crime, and disaster preparedness. Key search terms included "tourism safety India," "health risks for tourists," "food hygiene," "tourist infrastructure," and "disaster management in tourism." Relevant case studies from Kerala and Rishikesh were selected to illustrate localized responses and their outcomes.

No empirical data collection or field surveys were conducted. Instead, case studies were derived from published sources, which provided detailed documentation of health and safety initiatives and their impacts. These examples served to contextualize the thematic findings and demonstrate practical applications of policy and community-based interventions.

As this study did not involve human participants, ethical approval was not required. However, all secondary sources used were cited to maintain academic integrity and transparency. No statistical tools were applied, as the study was conceptual and analytical rather than quantitative. Nonetheless, wherever available, statistical insights from reviewed sources were reported to support thematic observations.

All literature reviewed was in English, and full texts were accessed legally through institutional subscriptions or open-access platforms. This methodological framework ensures the reproducibility of the research and allows for continued exploration into region-specific health and safety challenges in Indian tourism.

#### 4. Case Studies

#### 4.1 Health and Safety Initiative in Kerala

Kerala, a prominent tourist destination known for its backwaters and natural beauty, has successfully implemented several health and safety initiatives to enhance tourism experience. A notable example is the "Responsible Tourism" (RT) program, which was launched to address issues of sanitation, health, and local community involvement. Under this initiative, local communities were engaged in creating and maintaining hygienic environments for tourists. The program included training local food vendors on hygiene practices and regular inspections to ensure compliance with health standards. Additionally, mosquito control programs were intensified to combat vector-borne diseases like dengue and malaria. Kumar and Verma (2019) report that these measures significantly reduced the incidence of foodborne illnesses and mosquito-borne diseases among tourists, contributing to a safer and more enjoyable experience. The success of Kerala's RT program highlights the effectiveness of community involvement and rigorous health standards in improving tourism safety.

#### 4.2 Infrastructure Improvement in Rishikesh

Rishikesh, a popular destination for adventure tourism and yoga, underwent a significant upgrade in infrastructure to enhance safety and accessibility. The local government invested in improving road networks, expanding medical facilities, and establishing a dedicated emergency response team. The development included the construction of an advanced trauma care center and the installation of emergency response stations at key tourist spots. Singh and Sharma (2020) indicate that these improvements not only facilitated quicker access to medical care but also bolstered overall safety during high-traffic tourist seasons. Enhanced infrastructure and emergency services have had a positive impact on the safety and comfort of tourists, reducing response times in emergencies and increasing visitor confidence in the destination.

#### 5. Research Results

The successful implementation of health and safety initiatives in Kerala and Rishikesh provides valuable lessons for other regions. Community involvement in health initiatives, as seen in Kerala, is crucial for ensuring local adherence to safety standards and creating a supportive environment for tourists. Involving local businesses and residents in training programs and health awareness campaigns can lead to significant improvements in safety and hygiene. Additionally, infrastructure improvements, such as those in Rishikesh, highlight the importance of investing in medical facilities and emergency services to enhance tourist safety. Comprehensive planning and the allocation of resources to address specific local needs are key components of successful safety interventions.

#### 6. Discussions

Both case studies also reveal common challenges faced during the implementation of health and safety measures. In Kerala, engaging local communities and ensuring consistent compliance with health standards required ongoing effort and coordination. Resistance to change and limited resources were notable obstacles that needed to be addressed through continuous education and support. In Rishikesh, the rapid expansion of infrastructure posed logistical challenges, including the need for coordinated efforts among multiple stakeholders and managing the impact on local ecosystems. Addressing these challenges involved iterative planning, stakeholder engagement, and adaptive strategies to ensure effective and sustainable improvements.

#### **Conclusions and Further Research**

The assurance of health and safety within the Indian tourism sector is imperative for fostering sustainable growth and enhancing the overall quality of the tourist experience. Critical concerns - including the prevalence of infectious diseases, inadequate food and water safety measures, and deteriorating environmental health conditions - necessitate comprehensive and well-structured policy interventions. These must be supported by strategic investments in public health infrastructure, sanitation systems, and environmental management.

Empirical evidence from destinations such as Kerala and Rishikesh demonstrates that integrated approaches involving community engagement, infrastructural development, and health-focused initiatives can lead to measurable improvements in tourist safety and satisfaction. These case studies underscore the importance of participatory governance and localized responses in addressing context-specific challenges.

Nevertheless, persistent obstacles such as constrained financial resources, institutional inertia, and sociocultural resistance to change continue to hinder progress. Addressing these barriers requires sustained multi-stakeholder collaboration, capacity building, and the implementation of adaptive, evidence-based strategies.

By prioritizing health and safety, enhancing public awareness, and institutionalizing resilient health management systems, India can establish a secure and hospitable tourism environment. This, in turn, will contribute significantly to the resilience, competitiveness, and long-term viability of the country's tourism industry.

#### Acknowledgments

The authors wish to express their sincere gratitude to the administrative and academic staff of Indira College of Commerce and Science for their support during the preparation of this review paper. We also acknowledge the assistance provided by local tourism offices and healthcare professionals who contributed valuable insights. No financial support or material assistance was received from any third party. There are no conflicts of interest that could have influenced the findings presented in this paper.

#### **Credit Authorship Contribution Statement**

**Vinita Kushwah**: Conceptualization, Methodology, Writing – original draft, Supervision, Data curation, Validation, Writing – review and editing.

**Yogesh Vyavahare**: Investigation, Formal analysis, Visualization, Writing – review and editing, Project administration.

#### **Declaration of Competing Interest**

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

#### Declaration of Use of Generative AI and AI-Assisted Technologies

The authors declare that they have not used generative AI and AI-assisted technologies during the preparation of this work.

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