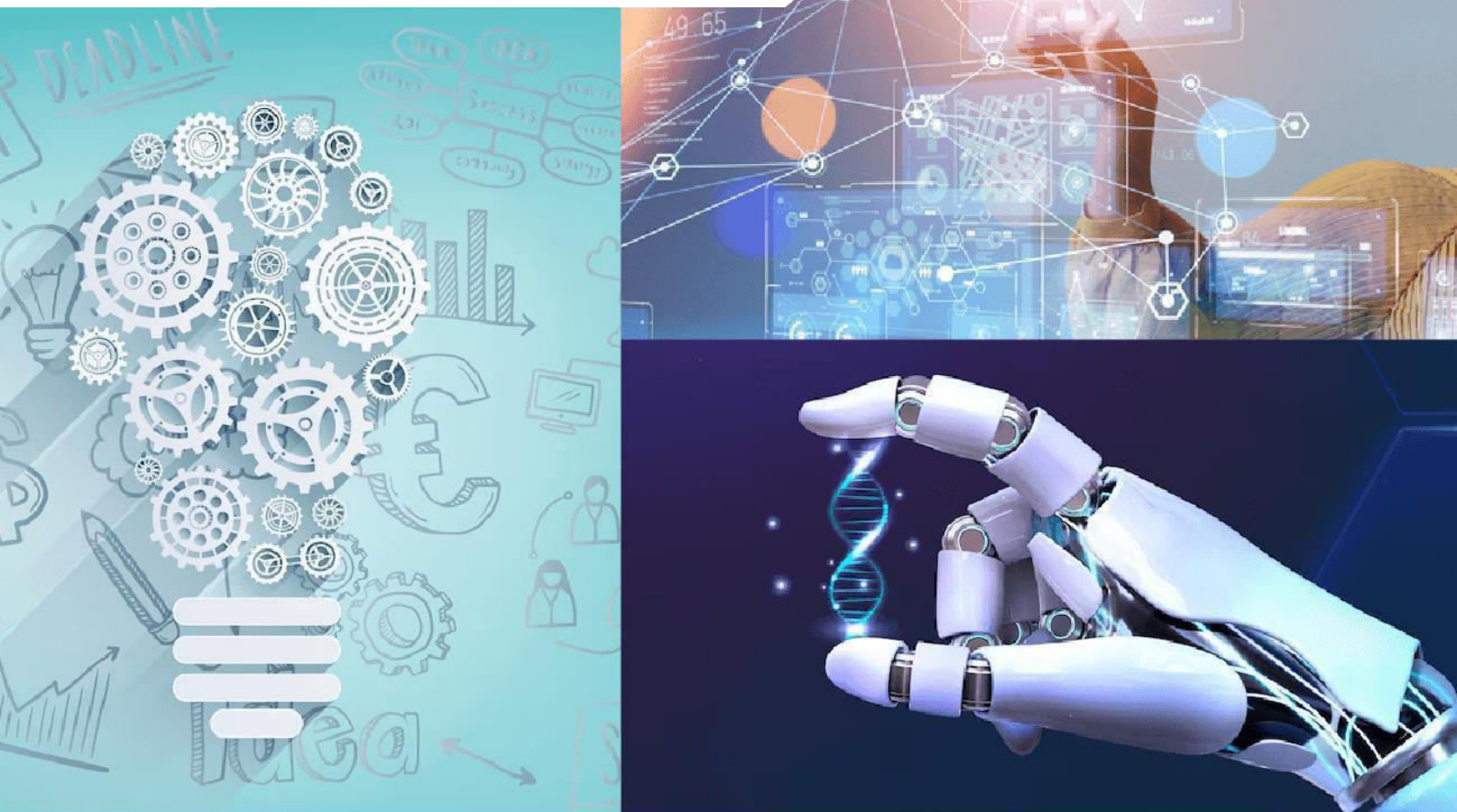




International Journal of Advanced Research in Education and Technology (IJARETY)

Volume 13, Issue 3, May - June 2026

Impact Factor: 9.971



Sustainable Tourism at Heritage Sites in Agra: An Analysis of Tourist Awareness, Attitudes, and Practices

Vivek Kumar¹, Dr Lavkush Mishra²

Research Scholar, Dr Bhimrao Ambedkar University, Agra, India¹

Professor, Department of Tourism, Dr Bhimrao Ambedkar University, Agra, India²

ABSTRACT: Sustainable tourism is now a key strategy for reconciling tourism expansion with environmental conservation, cultural and social protection and economic growth. Agra is one of the most important tourism destination in India attracting millions of domestic and international tourists every year due to its rich Mughal heritage and world famous monuments. The awareness, attitude and practice of tourists towards sustainable tourism was studied at five heritage sites in Agra, India namely, Taj Mahal, Agra Fort, Fatehpur Sikri, Itmad-ud-Daulah and Sikandra. This research is based on primary data collection through structured questionnaire and convenience sampling method from 300 respondents. The data were analyzed with the help of statistical tools such as percentage analysis, mean analysis, chi square tests and descriptive interpretation.

The results indicate that tourists are becoming more aware of sustainability issues, such as cleanliness, waste management, heritage conservation and environmental protection. But there are gaps between awareness and real sustainable behaviour. The study also underlines the role of government initiatives, tourism authorities, local communities and hospitality stakeholders in promoting responsible tourism practices. Key sustainability concerns identified included overcrowding, pollution, inadequate waste disposal systems, traffic congestion and commercial pressures around heritage sites.

The study concludes that effective awareness campaigns, better infrastructure, stakeholder participation, stricter environmental regulations and sustainable destination management strategies are essential to preserve Agra's heritage tourism resources for future generations.

KEYWORDS: Sustainable Tourism, Heritage Tourism, Tourist Awareness, Tourist Behavior, Agra Tourism, Heritage Conservation, Responsible Tourism, Cultural Tourism.

I. INTRODUCTION

Tourism is one of the fastest growing industries in the world. It plays a significant part in economic development, job creation and cultural exchange. Heritage tourism is an important aspect of India in attracting domestic and foreign visitors due to the country's rich historical and cultural wealth. Agra in Uttar Pradesh is one of the most visited tourism destinations in India and is famous worldwide for its Mughal architecture and UNESCO World Heritage Sites. The city has numerous world famous heritage monuments like Taj Mahal, Agra Fort, Fatehpur Sikri, Itmad-ud-Daulah and Sikandra. The monuments are a key contributor to the local economy and attract millions of tourists every year. The Taj Mahal is one of the most popular monuments of India and attracts millions of tourists every year.

However, the rapid growth of tourism has led to a number of environmental and socio-cultural issues such as overcrowding, pollution, generation of waste, traffic congestion, commercialization and deterioration of heritage structures. Therefore, sustainable tourism has become an imperative necessity for the expansion of tourism that can fulfill the expectations of the present without compromising the ability of future generations to meet their own needs in terms of cultural and environmental resources.

Sustainable tourism deals with preservation of environment, preservation of local culture, community participation, responsible behavior of tourists and economic sustainability. Tourists understanding and attitude towards sustainability is vital in the sustainable management of destinations. Tourism stakeholders and policy makers need to understand tourist views and practices in order to establish effective sustainability plans.

The present study is an effort to analyze the awareness, attitude and sustainable behaviors of tourists at key cultural sites of Agra. The study contributes to the emerging body of knowledge on sustainable heritage tourism and provides practical recommendations for enhancing sustainable tourism management.

II. REVIEW OF LITERATURE

Smith (2018) posits that sustainable tourism promotes responsible travel practices that minimize environmental impacts, as well as contribute to the preservation of cultural resources and local economy.

UNESCO studies have indicated the necessity to safeguard the World Heritage Sites from environmental damage, overpopulation and uncontrolled tourist activities. Heritage monuments such as Taj Mahal, Agra Fort and Fatehpur Sikri are recognized and require sustainable management strategies.

Awareness of tourists about the conservation of the environment is an important factor influencing responsible tourism behavior at heritage places (Sharma and Gupta, 2019).

Singh (2020) points to the problems of pollution, overpopulation, waste management and infrastructure related problems of the heritage tourism areas in India.

Kumar and Verma (2021) believe that educational efforts and location interpretation initiatives can increase tourists' understanding of sustainability practices.

Rani (2022) explored the contribution of local communities to sustainable tourism development and highlighted the need for cooperation among stakeholders in the preservation of heritage.

International research shows that tourists are increasingly choosing resorts that use environmentally friendly practices, techniques for reducing waste and sustainable destination management.

Although there is a growing amount of research on sustainable tourism, little work has been done on tourists' understanding and conduct with regard to sustainability at cultural sites in Agra. Thus, the present work aims to bridge this research gap.

Joshi and Saxena (2017) opined that sustainable tourism practices at Indian heritage destinations were aimed at the need for efficient waste management, controlling visitors and environmental education to conserve historical monuments. The study found that unmanaged tourist activities can cause the accelerated deterioration of cultural buildings.

According to the World Tourism Organization (2019), sustainable tourism development is the equilibrium between the protection of the environment, socio-cultural authenticity and long-term economic benefits for host communities. The organization underlined the need of responsible tourism behaviour and stakeholder engagement in destination management.

The study of Mehta (2019) on the visitor attitudes on environmental sustainability in North India's key cultural attractions found that visitors having a higher education background expressed more concern towards the heritage protection and eco-friendly tourism activities.

Congestion and lack of infrastructure in heritage areas have a significant influence on tourist satisfaction and create environmental damage, say Patel and Chauhan (2020). The researchers suggested introducing carrying capacity management and sustainable mobility solutions in tourism sites.

Verma and Singh (2021) studied the impact of tourism on historical monuments of Agra, and found that pollution has negatively impacted the conservation of monuments, especially the Taj Mahal due to wastes disposal, increased vehicular emissions and over-crowding.

As Khan (2021) mentioned, sustainable historical tourism is a collaborative effort of government agencies, local communities, tourism companies and tourists. The study emphasized the need for awareness raising activities and strict conservation procedures for the protection of the objects of the cultural heritage.

Bhatia and Arora (2022) investigated the perceptions of tourists towards responsible tourism practices. The study revealed that most of the tourists are willing to support sustainability initiatives such as plastic reduction, cleanliness drives and eco-friendly transportation, if they are provided with enough facilities and guidance at tourist destinations. The Archaeological Survey of India report recommended the amalgamation of heritage conservation with tourism management for the long-term protection of historical sites while providing tourist satisfaction and tourism earnings. Gupta and Sharma (2023) studied the issues of sustainable tourism at UNESCO World Heritage Sites in India and found that the issues are poor waste management, lack of discipline among the visitors, commercialization and lack of local participation. The study proposed using smart tourism technologies and sustainable visitor management systems. Lee and Chen (2023) conducted a recent international study revealing that tourists have increasingly been attracted to destinations with high levels of environmental responsibility, cultural authenticity, and sustainable tourism certification. The authors concluded that the sustainability measures had a positive impact on the destination image and revisit intention.

III. STUDY OBJECTIVES

1. To analyze the level of awareness of tourists regarding sustainable tourism practices at heritage sites in Agra.
2. To examine the attitudes of tourists towards environmental and heritage conservation.
3. To find out the sustainable tourism practices practiced by the tourists.
4. To identify the challenges affecting sustainable tourism at heritage sites in Agra.
5. To suggest ways of promoting sustainable tourism management.

IV. HYPOTHESIS OF RESEARCH

- H1: Awareness of tourists has a significant effect on sustainable tourism practices
H2: Tourists' positive attitudes to heritage conservation.
H3: Environmental challenges have a negative impact on tourist satisfaction.
H4: Sustainable tourism initiatives enhance the overall experience of visitors.

V. METHODOLOGY OF RESEARCH

5.1 Research Design

The study is descriptive and analytical in type. Both the data primary and secondary were used.

5.2 Field of Study

The study was conducted at five important heritage sites of Agra:

1. Taj Mahal
2. The Agra Fort
3. Fatehpur Sikri
4. Itmad-ud-Daulah's
5. Sikandra

5.3 Sample size

A total of 300 tourists were selected as the respondents for the study.

5.4. Sampling Technique

Respondents were selected by using convenience sampling method.

5.5 Data Sources

Primary Data

Primary data were collected from tourists visiting the heritage sites using structured questionnaires.

Secondary Data

The secondary data were collected from books, journals, government tourism reports, research articles, publications of UNESCO and tourism websites.

5.6 Data Analysis Tools

The following statistical tools were applied:

- Analysis in %

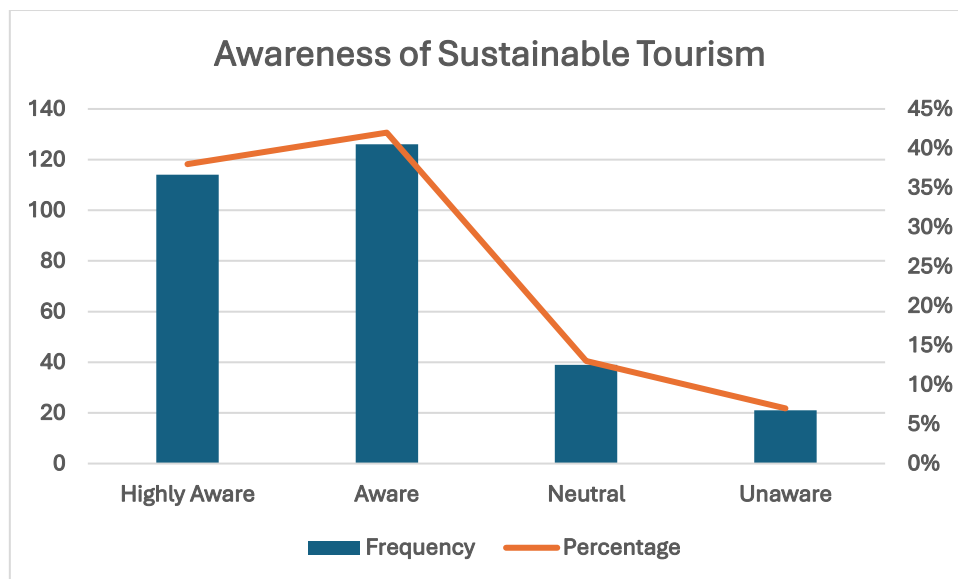
- Mean Score Analysis of
- Chi Square Test
- Description Interpretation
- Graphical display

VI. RESPONDENTS' PROFILE

GENDER	Male	168	56%
	Female	132	44%
AGE	18–25	72	24%
	26–35	96	32%
	36–45	78	26%
	More than 45	54	18%
NATIONALITY	Domestic	228	76%
	International	72	24 %
EDUCATION	Graduate	135	45.0%
	Postgraduate	102	34%
	Others	63	21%

VII. DATA ANALYSIS AND INTERPRETATION

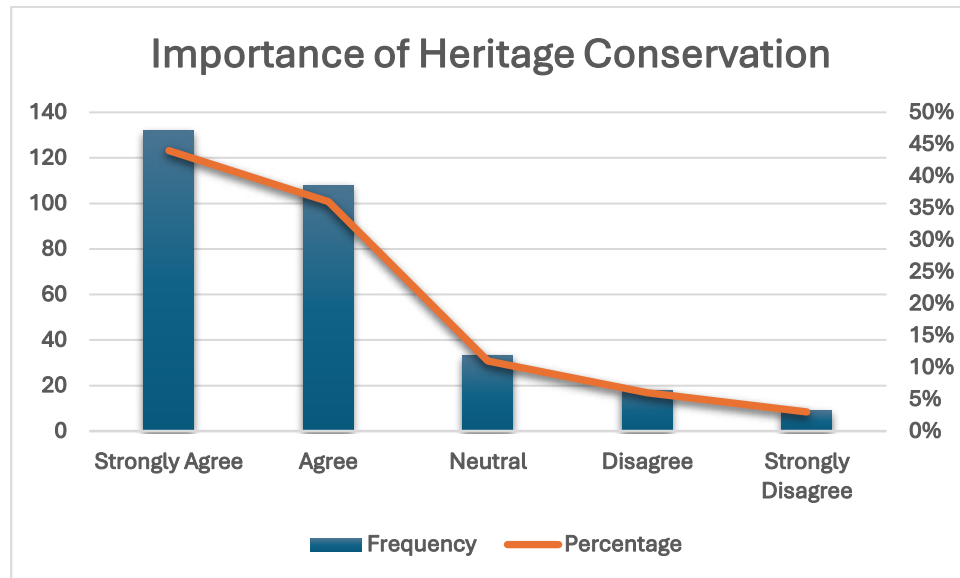
Table 1: Awareness of Sustainable Tourism



Interpretation

The majority of the respondents (80%) were aware or highly aware of the concepts of sustainable tourism, indicating the increasing environmental consciousness among the tourists.

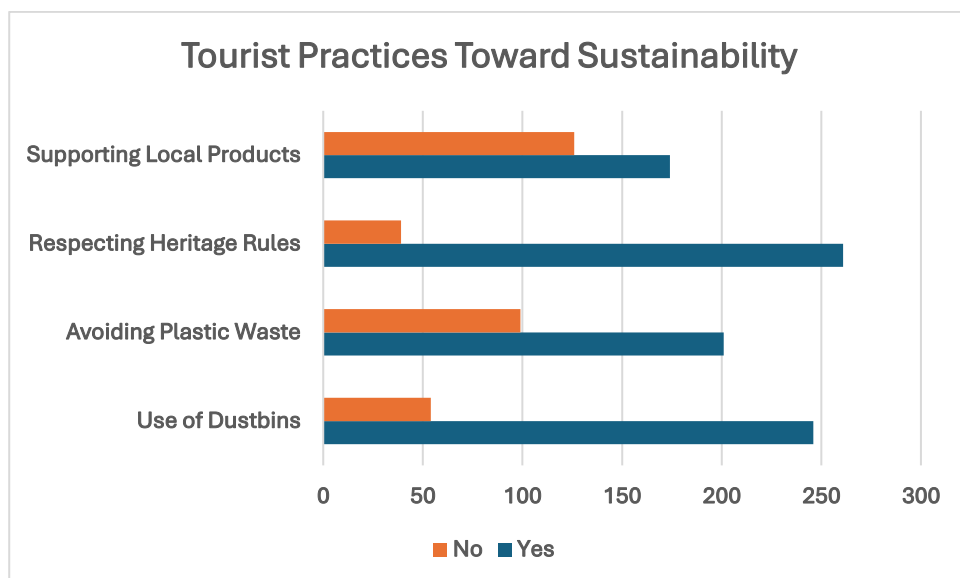
Table 2: Importance of Heritage Conservation



Analysis

The majority of tourists believed that heritage conservation is important for the protection of historical monuments and the promotion of sustainable tourism.

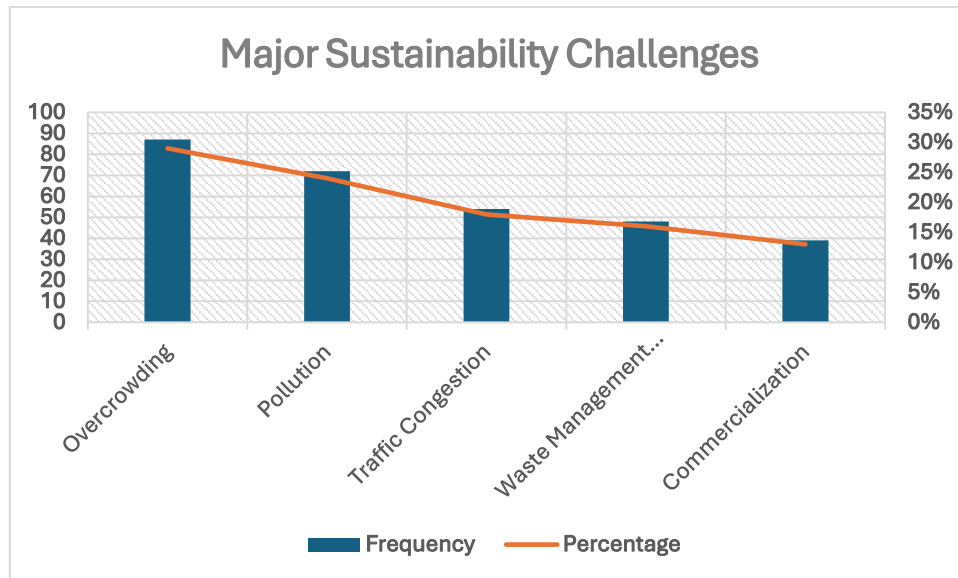
Table 3: Tourist Practices towards Sustainability



Explanation

The findings suggest that tourists generally adhere to responsible behavior, including appropriate waste management and compliance to heritage regulations. The use of plastic remains a concern and there is limited support for local products.

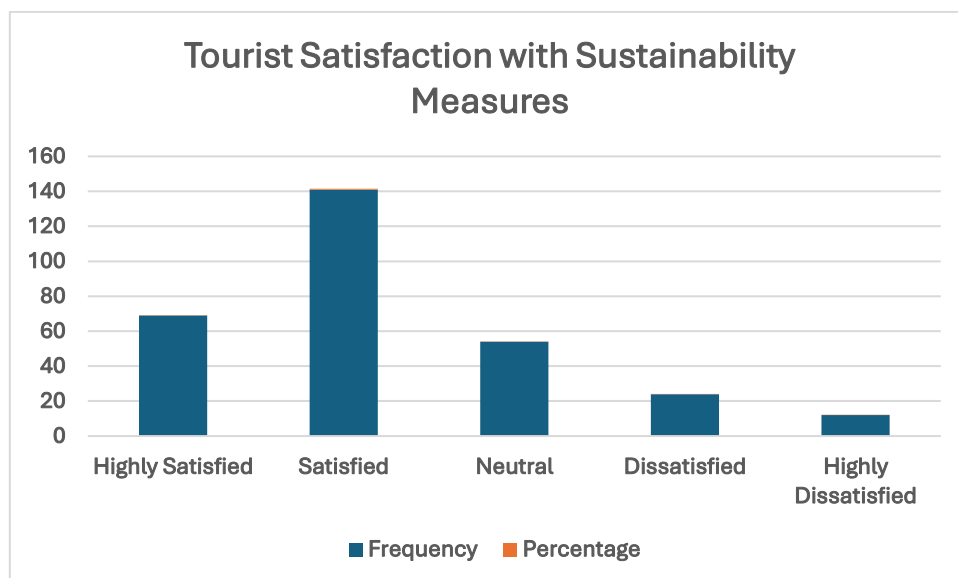
Table 4: Key Sustainability Challenges



Interpretation

Overcrowding and pollution were identified as the main barriers for sustainable tourism at the heritage sites of Agra.

Table 5: Tourist Satisfaction on Sustainability Measures



Explanation:

Most of the tourists were satisfied with the sustainability initiatives, but there is still room for improvement in terms of cleanliness, infrastructure and crowd management.

Research Hypotheses and Interpretation

Hypothesis 1 Null Hypothesis (H01)

The tourist awareness & sustainable tourism practices at heritage sites in Agra have no meaningful relation.

Alternative Hypothesis (H₁₁)

The link between tourist awareness and sustainable tourism practices at heritage sites in Agra is significant.

Discussion

The results of the study found that tourists with higher awareness of sustainability concepts were more likely to engage in responsible tourism practices, such as proper disposal of waste, avoidance of plastic use, respect for the rules of the monument, and support for activities related to heritage conservation. Most of the respondents expressed the importance of environmental protection and sustainable tourism management. The statistical analysis showed that the level of awareness has a positive relation to the sustainable behavior. The null hypothesis was rejected and the alternative hypothesis was accepted. The findings imply that raising awareness among tourists has the potential to greatly enhance sustainable tourism practices in heritage destinations.

Hypothesis 2 Hypothesis 2 (H₀₂)

Tourist attitudes have no significant impact on heritage conservation of heritage sites in Agra.

Alternative Hypothesis (H₁₂)

Attitudes of tourists has a major impact on conservation of heritage at heritage sites in Agra.

Interpretation of Results

The study showed that tourists with positive attitude towards culture preservation and environmental sustainability were more supportive of heritage conservation measures. The respondents agreed that preserving historical monuments is important for future generations and the sustainability of tourism. Heritage protection-oriented tourists were more likely to adhere to site regulations and responsible behavior. The analysis confirmed the major role of positive attitudes of tourists for the heritage conservation efforts. The null hypothesis was rejected and the alternative hypothesis was accepted.

Hypothesis 3 Null Hypothesis (H₀₃)

Environmental challenges do not have a significant impact on tourist satisfaction at heritage sites in Agra.

Alternative Hypothesis (H₁₃)

Environmental issues significantly influence the satisfaction level of tourists visiting heritage sites in Agra.

Comment

The research identified several environmental problems at major heritage sites of Agra such as crowding, pollution, traffic congestion and problems of waste management. The respondents complained about the lack of cleanliness, overcrowding and environmental degradation taking place around tourist attractions. Statistics show that environmental problems negatively affect the visitor experience and satisfaction. "Tourists preferred clean, well-managed destinations with sustainable infrastructure. Therefore, the null hypothesis was rejected and the alternative hypothesis was accepted which means that environmental conditions play an important role in determining tourist satisfaction.

Hypothesis 4 Null Hypothesis (H₀₄)

Sustainable tourism initiatives do not significantly enhance the visitor experience in heritage sites of Agra.

Alternative Hypothesis (H₁₄)

Agra's sustainable tourism initiatives make a big difference to the quality of experience for visitors at the heritage sites.

Meaning

The study's findings indicated that the tourists appreciated the sustainability initiatives such as cleanliness drives, regulated tourism activities, heritage conservation programs, eco-friendly transportation and awareness campaigns. The respondents stated that better environmental management and sustainable tourism practices improved their overall travel experience and satisfaction. Tourists also considered sustainable initiatives important to maintain the authenticity and attractiveness of heritage destinations. The analysis revealed positive effects of sustainable tourism initiatives on visitor experiences. Therefore, the null hypothesis was rejected and the alternative hypothesis was accepted.

VIII. FINDINGS

The study shows that the tourists visiting the heritage sites of Agra are quite aware about sustainable tourism. Many respondents accepted the need to maintain heritage monuments and to keep the environment clean.

Tourists were found to have positive attitudes towards sustainable tourism practices such as proper waste disposal, compliance to site regulations and supporting the preservation of heritage sites. But there is a gap between awareness and actual sustainable behaviour, especially with respect to plastic use and re The study, “Sustainable Tourism at Heritage Sites in Agra: An Analysis of Tourist Awareness, Attitudes and Practices”, highlighted several important findings based on the responses collected from 300 tourists visiting major heritage destinations in Agra. The findings show an increasing awareness and positive attitudes towards sustainable tourism and highlight challenges to the sustainability of heritage tourism.

Main Findings of the Research

1. High awareness of sustainable tourism

- A very high proportion of respondents (80%) were aware or very aware of the concept of sustainable tourism.
- 7% of tourists were unaware of sustainability practices.
- This is a sign that the tourists coming to the heritage sites of Agra from within the country and from abroad are becoming more and more aware about the environment.

2. Positive Attitude to Heritage Conservation

- About 80% of the respondents agreed/strongly agreed that heritage conservation is important in protecting monuments and sustainability of tourism.
- Tourist appreciated the need to conserve cultural and historical resources for future generations.

3. Responsible Tourist Practices on the Rise

- Most tourists reported responsible tourism practices:
- 246 respondents used dustbins properly.
- 261 abided by heritage site rules and regulations.
- 201 didn't use plastic garbage.
- Support for local products and handicrafts was relatively lower indicating the need to further promote local tourism economies.

4. Environmental Challenges Remain Significant

- Overcrowding (29%) is the biggest sustainability challenge at heritage sites in Agra.
- Pollution (24%) and traffic congestion (18%) were also significant issues impacting visitor experiences.
- Other issues affecting sustainability of destinations are waste management and commercialization.

5. Tourist Satisfaction at a Moderate Level

- Seventy percent of the respondents were satisfied or very satisfied with the current sustainability measures.
- The positive response was not unanimous, as some tourists were disappointed by the cleanliness, crowd management and facilities of the infrastructure.

6. Role of Awareness in Promoting Sustainable Behavior

- Hypothesis testing revealed that tourists with greater awareness levels were more likely to perform responsible tourism behavior such as proper waste disposal and respect for monument regulations.
- Awareness programmes were found to be important in promoting sustainable tourism practices.

7. Heritage protection supported by attitudes of tourists

- Heritage preservation efforts have been significantly supported by positive tourist attitudes.
- Tourists concerned about cultural preservation were more likely to cooperate with sustainability efforts and conservation rules.

8. Environmental Issues and Tourist Satisfaction

The research has confirmed that pollution, overcrowding and inadequate waste disposal have a negative impact on visitor satisfaction and the image of the destination.

- Tourists favoured heritage sites which were cleaner and better managed from an environmental point of view.

9. Sustainability Initiatives Enhance Visitor Experience

- Sustainable tourism initiatives, such as eco-friendly practices, cleanliness drives and awareness campaigns, positively influenced the tourist experience.
- Respondents believed that sustainable tourism helps preserve the authenticity and attractiveness of heritage destinations in Agra.

IX. CONCLUSION

The study finds that Agra has gained an understanding of sustainable tourism as a key component of its heritage tourism management. Visitors are more aware of environment sustainability and cultural preservation at heritage sites and most of the respondents showed good sentiments towards responsible tourism practices. The results of the research show that awareness and positive attitude have significant effect toward sustainable visitor behavior and conservation of culture.

The study also found that the tourists are generally supportive of sustainability initiatives such as cleanliness programs, conservation activities, eco-friendly transportation and regulated tourism management. The initiatives add positively to visitor satisfaction and to the overall tourism experience. However, despite these benefactory advances, there are several environmental and infrastructural problems which still impact on the sustainability of tourism in Agra. The main obstacles to sustainable tourism development were identified as overcrowding, pollution, transportation congestion, issues of waste management and commercialisation. These challenges have negative implications on tourist satisfaction and could compromise the long-term conservation of heritage resources if not well managed.

The study identifies the need for improved coordination between government agencies, tourism departments, local communities, tour operators and tourists for sustainable management of heritage places. Long term sustainability goals are achieved with effective awareness programmes, strict environmental policies, better waste management systems, better crowd control measures and promotion of local cultural items.

The study emphasizes the need for sustainable tourism strategies for the conservation of cultural, historical and environmental significance of heritage sites in Agra, as well as improving tourist satisfaction and contributing to economic growth. Sustainable tourism management can help to preserve Agra's rich heritage and tourism potential for future generations.

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International Journal of Advanced Research in Education and Technology

ISSN: 2394-2975

Impact Factor: 9.971