

Geographical Study of Impacts In Tourism on Environment In Rajasthan

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Abstract

This article examines the main aspects of the relationship between tourism and the environment, specifically investigating the impact of tourism on the environment from a geographical perspective. After discussing the relevance of the environment to tourism, this article examines how tourism can lead to changes in travel destinations. It was noted that too much emphasis was placed on leisure and its relationship with the environment compared to tourism, and this should be corrected in the future. The problems of monitoring environmental changes in the region and managing the effects of tourism will be briefly reviewed. The article concludes by identifying key issues and research needs that need to be addressed. Tourism puts great pressure on local land use and can cause soil erosion, increased pollution, loss of natural resources and greater stress on animals. These impacts can slowly destroy the natural resources on which the tourism industry depends. Tourism can directly contribute to the protection of sensitive areas and habitats. Revenues from park entrance fees and similar sources can be used to pay for the protection and management of sensitive environments. Tourism is a significant economic driver and cultural influencer in many regions, including. This research paper investigates the impact of tourism on the physical environment of these areas, focusing on both positive and negative effects. The study examines various tourist activities and their direct and indirect impacts on the environment, with the aim of proposing measures for sustainable tourism development. Through analysis, it becomes clear that while tourism can bring economic benefits and cultural exchange, it also poses challenges to the natural environment and local communities. By understanding these impacts, stakeholders can work towards minimizing negative effects and maximizing positive outcomes for sustainable tourism development.

Keywords :- Impact of Tourism on Physical Environment in Rajasthan, Positive Affect of Tourism on Physical Environment, Negative Impact of Tourism on the Natural Environment, Kind of Tourist Activities which Leads to Problem for Natural Environment, Pollution due to Tourist Activities, solution & Conclusion.

I. Introduction :-

Tourism is a dynamic force that encourages people to explore nature, adventure, wonder and society, explore culture, meet new people. talk about values and learn about new traditions and activities. Tourism development attracts tourists to certain places to create and promote tourism. Moreover, environmental sustainability is a future effort to preserve cultural heritage and health and preserve environmental ecosystems by promoting people's health and well-being. Environmental sustainability can be found in clean and green natural landscapes, thriving biodiversity, pristine beaches, rugged desert grasslands, socio-cultural values and archaeological heritage; all of which demonstrate the interest and willingness of local communities to host tourists. Guests. In this context, tourism development and environmental sustainability are seen as interdependent models; Therefore, the development of tourism and the increase in the number of tourists directly affects the quality of sustainable and green tourism. If we are to cover the wonders of tourism in a region, it is important to understand the impact of tourism on a particular area. In the last part of this research project, tourist patterns, tourists in Rajasthan, major tourists, duration of stay, reasons for visiting, available options etc. We learned about.

Now by examining the information about tourist influx and tourists' favorite season, we conclude that a large number of tourists visit in Rajasthan every year. Since we were in Covid 19 at that time, it is normal for there to be a decrease in data due to the huge impact. Therefore, it can be said that the state and the private sector are making intense efforts to serve the large number of tourists in the region. The influx of tourists will also affect questioning in many ways during their visit. The magnitude of the impact generally depends on the number of visitors, length of stay, interaction patterns, reasons for visiting, convenience and other activities. Although the shape and extent of the impact also depends on the products of the tourism industry, such as tour interaction with tourists, accommodation and how travelers do it, and other things. Interviews with tourists, how the service carries out its activities when helping tourists, etc.

If we see the impact of tourism on the environment and place, we see that there are two types of impacts that can be seen: ç positive impact and negative. In order for the tourism sector to develop effectively, positive effects must be improved and negative effects must be minimized.

In this section we will examine various activities that may directly or indirectly affect the environment. Examining the almost diverse nature of visitors and their impact on the physical environment and space is the focus of this chapter. The purpose of thinking about the impact of tourism on the natural environment and the location of the study area is to understand the differences that are bad for the environment and suggest ways to manage the negative impact in order to promote the development of business in science. area. Therefore, in the opening section we will examine the impact of visitor activities on research and then the physical environment of the destination.

Objectives :-

1. To study the effects of tourism on the geographical environment in Rajasthan.
2. To clarify the positive and negative effects of tourism in Rajasthan.

Hypothesis :-

1. Tourist activities have had harmful effects on the geographical environment in Rajasthan.

Data source :-

In the presented research paper, secondary data obtained from the Tourism Department and the Environment Pollution Control Board has been used.

Impact of Tourism on Physical Environment

Physical Environment of any range incorporates alleviation highlights (mountain, slopes, level, and plain) waste framework (stream and other water bodies), with greenery and fauna. These physical highlights of any locale moreover act as an fascination, for the tourist.

In our ponder zones, the Thar Leave, leave environment, sand rises, special climate of Jaisalmer is included beneath favorite touristsâ€™ spots. Whereas the natural life haven and normal territory of wild life of Ranthambore is acts as a magnet for visitors. So, these all acts as drag components of tourism in these investigate areas.

To serve the visitor's distinctive traveler exercises are performed at these spots like night camps, safari (camelsafari in Rajasthan Desert and safari on jeepsy, camphor in National parks in Rajasthan), sailing etc. This leads to influence the physical environment badly.

While serving for tourism environment has its possess capacity, characteristic quality, common chemical composition and inventiveness and this physical environment may be a portion of Topography of specific locale. So, Geology is continuously mindful for kind of Human occupation in this way the component of Geology (physical environment) too influences Tourism specifically or indirectly.

Positive Affect of Tourism on Physical Environment

Geographical variables like Help highlights, climate of have region, vegetation, and water bodies influence the tourism organization and vice versa. Presently we are going discuss the kind of Affect of Tourism over Environment of Jaisalmer and Ranthambore.

Any kind of financial exercises of Human being is controlled by topographical condition of the region and these economic exercises in return moreover impact the environment in several ways. Here we'll examine the Positive Affect of Tourism over physical or normal environment of inquire about zones: -

Preservation and protection of the natural environment

Every day, business pays for the protection and preservation of the natural environment, and this natural environment is a favorite among nature lovers. Tourism based on the natural environment is in high demand these days. People want to spend valuable time in natural environment as it is a break from modern technology life. It attracts the attention of tourists.

Here the natural environment becomes a source of income for the tourism sector. The money returned from tourists can be used to protect the natural environment in many ways. Therefore, the tourism industry has a responsibility to protect the natural environment.

Using and supporting the environment as a business strategy

Using our environment as a resource to support business strategy is a good way. Sometimes you don't have to change the environment and spend a lot of money for tourists who want to experience the real beauty. In this way, the natural environment in its original form can stimulate trade through tourism. Rural tourism, mountain tourism and ecotourism are now in great demand.

Wildlife protection

In order to develop tourism, wildlife can also be protected as wildlife reserves, national parks, etc. It is also protected by. Financial support and income from tourists can be used to protect wildlife.

It is a universal truth that every coin has two sides and therefore every situation can be viewed from a different perspective. The above description only talks about the positive impact of tourism on the physical environment, now we need to analyze the negative impact of tourism on the physical environment.

Thus geographical or physical environment economic activity etc. effects.

Therefore, it is very important to understand the relationship between natural resources and the development of tourism, because in today's world, the adoption of economic trade such as tourism is necessary for every business, and the protection of the natural environment is another important goal of the business For this purpose, questionnaires were asked to tourists visiting Jaisalmer and Ranthambore and local residents of the two study areas. Questions and answers from local people and tourists are as follows: -

Therefore, the needs of today's business world and the goals of all countries require the protection of the natural environment and economic development. Both must cooperate or be together.

Negative Impact of Tourism on the Natural Environment

Before discussing further, we will examine the picture of different tourism activities that damage the environment or cause a negative impact on the physical environment.

Table 1 : Tourism Activities and Environmental Degradation

Environment Components	Impact of Tourism	Tourist Activities
Vegetation and Wildlife	Reproduction disorder	<ul style="list-style-type: none"> • Bird Watching
	Loss or decimation of animals	<ul style="list-style-type: none"> • Illegal hunting. • Memento made by animal's body part. • Animal foods. • Overcrowded natural places.
	Vegetation Lost	<ul style="list-style-type: none"> • Development of Tourism infrastructure • Tourist activities in forest.
Pollution	Noise Pollution	<ul style="list-style-type: none"> • Vehicles • Traffic Jam • Music/party
	Air Pollution	<ul style="list-style-type: none"> • Vehicles used by tourist
	Water Pollution	<ul style="list-style-type: none"> • Boating and different amusement activities of tourists in Lakes, Rivers, Water bodies.
Erosion	Erosion of Soil	<ul style="list-style-type: none"> • Tourist activities deforestation for infrastructures
	Landslide	<ul style="list-style-type: none"> • Cutting of trees
	Forest Fire	<ul style="list-style-type: none"> • Irresponsible tourist activities of Tourists

So, there are different tourist activities that became cause for environmental degradation. Now we will discuss some kind of tourist activities which became problem for physical environment of host areas.

Kind of Tourist Activities which Leads to Problem for Natural Environment

1. Mass Tourism:

While Serving tourist physical Environment has also its own Capacity, If Number of visitors increases in particular area ultimately leads to more pressure over physical environment and also responsible for its depletion.

2. Transport System:

For progress of every economic activity proper transport system plays a vital role. In tourism different kind of transport viz air, railways, road, needs to develop for better assessment of tourist places. Developed transport system is also responsible for creating different kinds of pollution like noise, water air, etc. Number of amusement activities in water bodies also create water pollution like boating swimming etc.

3. Lack of Proper Sewage System:

Hotels, Restaurants use more water in order to serve tourists, sewage system is not proper and this leads to water pollution.

4. Amusement Activities:

Parties, Loud music, Kite festivals and many more activities always create noise pollution and harmful for birds and wild life.

5. Problem of Garbage Disposal:

Due to mass tourism problem of Garbage is became serious. There is lack of proper waste disposal system. This also leads to problem for environment.

6. Development of Infrastructure:

To serve more tourist development in terms of construction work is needed and this became more pressure over economic system as a well as on other available resources.

So, above mention are some of tourism activities which are resulted in depletion of physical environment of visited area. Now next we are going to discuss about what kind of impact of Tourism on physical Environment of research area Rajasthan we observed.

Pollution due to Tourist Activities

If we want to define the pollution in simple words, we can say that "If there is a change in natural properties of components of Natural environment due to mix up of any kind of foreign element in it, then the component become polluted

So, there are different type of pollution can be seen in Research area due to Tourist inflow or there is increase in different kind of pollution due to tourist activities. First, we will represent the situation with the help of simple table which explains how the different kinds of Pollution are created by following different tourist activities.

So, below table explains how the different tourist activities lead to different Kind of pollution in Research areas. Let us see how the different tourist activities responsible for water air noise soil and light pollution.

Air Pollution

Air is a mechanical mixture of different gases like nitrogen, oxygen, carbon dioxide, and other gases (water vapor, argon, helium, hydrogen, smoke and dust particles) the composition is sometimes vary from places to place. When there is introduction of any harmful mentioned (foreign material) in its natural chemical composition then the air became pollute and causing damage to organisms and environment.

According to information taken from transport and tourism.

Tourism contributes more than 5% of global greenhouse gas emission. By 2030, 25% increases in carbon dioxide emissions from tourism compared to 2016 is expected. So, with the development of tourism air pollution became a problem. Due to tourist inflow number of vehicles used by them also increases which contribute in air pollution.

Increasing amount of vehicle emission resulted creation of smog which is harmful for human health and ecosystem in many ways. In Rajasthan, with in the city and national park tourist use different kind of vehicles during their visit, so in this way the street in the market became congested and also vehicles emission creates air pollution in the research area. Not only for travelling amusement like in water parks these vehicles are also responsible for creating air pollution.

So, in this way due to Tourism, number of vehicles also increased and that is resulted in air pollution.

- There is lack of waste management.
- Air pollution is an also result of camp fire.

What will happen if we will not control air pollution?

- It will harmful for Human health.
- Also affect Ecosystem in negative way.
- Harmful for birds and animals.
- Contribute to global warming.

Air pollution also affect Tourism Development in negative way become now a day's Tourist wants to visit a healthy place which is free from any kind of pollution.

Noise Pollution

Also called sound pollution is a propagation of Noise with raging impact on the activities of human or animal life. Noise pollution is unwanted or disturbing sound in the environment which affect human health and other living organism in negative way.

Noise pollution and Tourism

- Noise of Vehicles used by Tourist create Noise Pollution.
- Loud music playing by tourist, shouting during visit is also responsible for noise pollution.
- If there is mass tourism, or increase in duration of stay the Noise pollution is also increasing.

Now what will the effect on noise pollution in research areas.

- Disturbing human life responsible for anxiety, headache, lack of concentration.
- Disturbing nearby wild life.
- Responsible for decreasing level of potentiality in worker etc.

Water Pollution

Water bodies like ocean, sea, river, pond, lake, etc. is base for any civilization. These are considered as resources for different economic activities. For tourism also these water bodies play a great role in many of Nation tourism is generally depend upon these water bodies. Tourists' activities sometimes responsible for creating pollution in water bodies.

In tourist places requirement of water for drinking, and other purpose, for amusement activities and in swimming pool, resulted in scarcity of water in tourist places, also tourism activities like boating, swimming, throwing garbage in water bodies or connect sewage in water bodies etc. resulted in creating water pollution.

Scarcity of water is another problem in research areas due to mass tourism. For serving tourist we need lots of water for different purpose, as we know there is already a scarcity of water in Research areas.

Other Pollution

Above mentioned pollution like water, Air, Noise are direct effects of tourism activities. But due to tourism some other kind of pollution is also seen in research area like soil pollution, light pollution etc.

Due to various tourist activities like throwing garbage, draining sewage water on land, deforestation frequent use of same path by tourist, etc. are responsible for soil pollution.

Excessive misdirected light which is responsible for disturb ecosystem and affecting human health in negative way. This type of pollution is called Light Pollution.

To check the Pollution is not always responsibility of tourist, host community is also responsible for it. We will now discuss about some more activities that are related to tourism only and responsible for creating pollution.

Impact of Tourism on Wildlife

Wildlife is important part of every ecosystem. Refer to those undomesticated animal's lines in wild without interferences of human being. Wildlife also considers as resources in every economy. In tourism industry people use to visit and watch the wildlife, so wildlife tourism is now a day's very famous.

Tourism affects the wildlife in two ways first positive way and other in negative way.

- The positive impact of tourism over wildlife is financial support through which wildlife sanctuary and National Park can be developed.
- On the other hand, we can use wildlife as a resource for economic benefits through tourism this leads to economic development of particular area.

Now while supporting the tourism industry wildlife also affected by tourist activities in negative way by disturbing the wild life in following manner.

Disturbance of Wildlife

- While visiting tourist used different vehicles for safari and, Noise of these vehicles is causing disturbance for wildlife and also emission of these vehicles creates air pollution.
- Tourist activities nearby National parks like music, campfire also disturbed the wildlife.
- Frequent use of same path by tourist responsible for change of migration path by animals.
- Bird watching and Use of light/cameras also disturbs animals.

Effect of disturbance

- Change of path by animals.
- Loss of marine animals due to water pollution.
- Adverse effect on breeding.
- Change of behavior of animals.
- Loss of endangered species.

So, we asked certain question related to disturbance of wildlife by tourism. Questions and responses were as follows:

Actually, wildlife life style is totally wild they want 0% human interference to grow. Their life cycle is somewhere affected negatively by tourist activities.

The number of arrivals and their duration of stay are also factors behind the intensity of effect.

If the number of visitors reduced, the negative impact over wildlife can be checked. Actually, our main aim should be development of tourism without affecting wildlife negatively.

Negative Impact

Change in Original Form of Historical Monuments

For serving tourist these historical monuments nowadays change as per modern need, due to this their original form loss. If the building is damaged, then during repairing the originality is somewhere changed, sometimes colors of walls, interior structure also changed. Modification in this respect leads to change in its original form.

Convert of Historical Monuments, Palaces, and Havellies into hotels

Many of palaces, havellies, and forts are nowadays converted in to hotels for serving tourists. Lots of tourists attracted towards these monuments and want to stay here to experience 'Royal Life'. Also, sometimes these are nowadays taken by government and converted in hotels. Some of these are nowadays use for business purpose. In this respect these monuments are losing their original form.

Pollution of Historical Monuments

Mass tourism in these Historical monuments is resulted in pollution, tourist during their visit often use to throw garbage, use to write their names over walls, etc. pollute the Historical places and monuments.

Pressure over Famous Historical Monuments

Sometimes historical monuments became so famous that every tourist want to visit these sites again and again, mass tourism leads to more pressure over these particular sites.

Guides of research areas should also inform tourist about nearby tourist site to keep balance and also promote unpopular nearby sites.

So, these are main negative impact of mass tourism over historical monuments.

Now we should discuss the impact of tourism over Lakes:

Impact of Tourism over Lakes

Lakes are also impact tourist sites. There are many Lakes in research areas which attract tourists. Some are Natural Lakes while some are artificial (manmade) also.

Boating, amusement activities are commonly seen in lakes. These lakes are also getting affected by tourism. Positive and negative impact both we will discuss one by one. First let's see positive impact of tourism over lakes.

Use of Lakes as Economic Resources for area

In Tourism these lakes are use as Resources for economic purpose, So, this is one of the positive impacts of tourism over lakes of research areas.

Lakes of Ranthambore which are at National Park is not used for tourist purpose because these are used by wildlife for drinking water. But other are used as resources.

Maintenance is Possible

Due to Tourism, return financial support the maintenance of lakes became possible. Cleaning, repairing etc. is not possible without the support of tourism.

So, in this way for tourism purpose maintenance of these lakes become possible.

So, these are the positive impact of tourism over lakes of research areas. Now we will discuss negative impact of tourism over lakes

Pollution

Due to different tourist activities inside and near lakes pollution is one of the important negative impacts over lakes. Swimming, boating, angling, feeding marine animals all leads to pollution of lake water.

Throwing of garbage in or near the lakes also responsible for creating pollution in the lakes.

Due to pollution of lake water the health of human and marine animals. If people continue for swimming in polluted water, they might get skin diseases or health problems. Marine animals also get disturb and they even die due to pollution.

The pollution should be checked or there should be strong rules and regulation for tourist and other to maintain cleanness in lake side. Due to boating also, the lake water gets polluted. So, this was a short discussion about how tourist activities affect the lakes.

Impact of Tourism over Sand dunes

Dunes are famous tourist spot of Jaisalmer. People from far away use to visit these sand dunes one considers as main tourist attraction for tourist number of tourist activities are perform over here like camel safari, sports, campfire, dances, parties etc. All these activities and mass tourism leads to influence the sand dunes very much.

Positive Impact of Tourism over Sand Dunes

Sand dunes having unique natural beauty, people from different states and nations like to visit here and experience beauty of Desert. Sand dunes can be used to attract tourism from different regions and in this way sand dunes are used as economic resources in tourism. These dunes are so beautiful that these became favorite tourist site of Jaisalmer.

Now we will discuss about negative impact: -

Negative Impact of Tourism over Sand Dunes

Negative Impact of tourism over sand dunes can be seen in Jaisalmer. Due to mass tourism pollution over sand dunes, loss of vegetation etc. can be observed.

- Due to development of tourist infrastructure the vegetation (which is already in scarcity) loss is one of the negative impacts of tourism.
- Camel safari, etc. are seen, due to vehicles air and noise pollution is also seen.
- Throwing of garbage during visit also pollution.
- Loud music, parties, etc. create noise pollution.
- More pressure over sand dunes.

So, in this way the mass tourism resulted in pollution of physical environment and sites.

So, this kind of question is better for our observation and research where people respond in their own way.

II. Conclusion:-

We discussed all the effects of tourism on the natural environment and landscape, and observed the different answers of tourists and local people to our questions.

Throughout the episode, we see that tourism has positive and negative effects on our problems. In order to facilitate the development of tourism, the natural environment and facilities in the study must control or reduce the negative effects of tourism.

Tourism has development potential due to the many natural and historical tourism areas included in the study. We must find a way to link the protection of the natural environment, the protection of tourists and the development of tourism. In this way, economic development and conservation of resources in society is possible.

The government, the private sector and those directly or indirectly related to tourism need to take measures to control the negative effects. Even tourists visiting the study area need to be responsible for their visit. Manage the quality of available resources and control pollution. Everyone needs to work hard to achieve the goal of good business development.

The aim of this study is that ecotourism management focuses on the economic value of economic benefits, including social justice, good-social leadership, while protecting and preserving natural ecosystems. Ecotourism is a phenomenon that promotes environmental sustainability through careful planning and careful management of places, balancing the competition between economic development and environmental sustainability. The paradox between tourism and the environment shows that the sustainability and survival of both depend on each other's success model. While environmental quality and sustainability of biological ecosystems encourage tourists and excessive tourism beyond the budget, the irresponsible behavior of tourists also negatively affects the environment and destroys the ecosystem. Ecotourism is not necessarily sustainable unless it is economically sustainable, environmentally sustainable and culturally sustainable. Ecotourism, which is socio-culturally intolerable, refers to activities that affect local people and their culture. Therefore, the study concludes that ecotourism should create a positive impact without harming the economy, environment and culture. The pursuit of sustainable ecotourism is not the end of the small comfort of enjoying the economy, but it is an impossible way to solve the sustainability problems caused by negative thoughts about the economy and growth.

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