

TOURISMS ENVIRONMENT THE TOURISM POTENTIAL OF ERSTWHILE JAMMU AND KASHMIR

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ABSTRACT

Purpose: *This research paper aims to examine the tourism potential of erstwhile Jammu and Kashmir. This study also aims to understand how much potential varies in three different regions of earlier Jammu and Kashmir.*

Methodology: *For the achievement of the objectives of the study, I have consulted secondary data sources. Data has been collected personally from the offices of the Director Tourism Kashmir, Director Tourism Jammu, and Director Floriculture Kashmir. I have also used annual reports of the few departments and the significant works of different authors. The method of 'Carrying Capacity' was used for data analysis.*

Findings: *I have found that about eight crore tourists should visit Jammu and Kashmir per year as per its Carrying Capacity, which means Jammu and Kashmir's environmental carrying capacity has not reached the threshold limit. I have also found that 112841 tourists can visit daily or within 24 h, 3385230 tourists can visit per month, and 41186965 tourists can visit yearly to Jammu and Kashmir. That means Jammu and Kashmir have enough accommodation facilities and can provide accommodation facilities for up to 412 lakh tourists because our flow is near about 200 lakhs only. Finally, I have concluded that Jammu and Kashmir have excellent tourism potential. It can increase tourist arrivals to a large extent by promoting it across the country and outside the country.*

The practical implications: *This study enables the policymakers to obtain the necessary evidence on the Carrying capacity of the tourism environment of Jammu and Kashmir. It also informs them about implementing an adequate policy to invite an optimal number of tourists.*

Originality: *Literature has been reviewed, I found that very few studies have focused on this issue. The authorities must be aware of the carrying capacity of the tourism environment of Jammu and Kashmir because it leads to environmental degradation after the inflow of visitors crosses the threshold limit.*

Research limitations: *The study has many limitations, most of which twig from the problem that the data was not in one place and was not sufficient for the extensive research on this theme.*

Keywords: Tourism in Kashmir, Tourism environment, Carrying capacity

INTRODUCTION

The trade-off between tourism and the environment is inevitable, interdependent, and complementary. During the last few decades, environmental sustainability and tourism have become a source of discussion among eminent international organizations, authorities, and various researcher scholars. Sadlar, (1988), Buttler, (2000), Stefanica & Butnaru, (2015) & Mowl, (2002) have posited that tourism and the environment are interdependent, more than any other industry. Because tourism heavily depends upon the natural, clean, and healthy environment. Brlasoulis, (1992) mentioned that the relationship between the environment and tourism is bidirectional. On the one-way environment provides tourism products for the tourists to enjoy, Live-in, and relax, and on the other way, tourism produces a variety of unwanted substances. Keeping this relationship in mind, we should use environmental products most efficiently by implementing adequate tourism policies. Chattopadhyay, (2008) mentioned that the natural environment is the base of tourism, and therefore it is necessary to conserve natural resources to sustain tourism. He also said that the development activities of tourism generally rely on the use of natural resources. The natural environment of a particular place attracts tourists to that very place. "In the early 1990s, in response to the growing interest among travelers in enriching their travel experiences through direct contact with the natural environment, living history, and local cultures, Ecotourism comes into existence. Ecotourism is responsible for travel to natural areas that conserve the environment and improve residents' welfare" (Annual administrative report, J & K forest department, 2016-17). According to United Nations World Tourism Organization (UNWTO), "Ecotourism means traveling to relatively undisturbed natural areas with the specific objective of studying, admiring, enjoying the scenery, its wild plants and animals as well as any existing cultural aspects found in these areas" (Statistical Digest of the forestry department, 2017).

This bosom relation of the natural environment and tourism stretches a new concept of "Tourism Environment." Tourism means traveling to or staying in places outside their usual environment for not more than a consecutive year and not less than 24 h for leisure, pleasure, business, and other purposes (UNWTO). On the other hand, "Natural environment could be defined as the physical, chemical and biological surroundings that humans and other species dependent on as a life support" (Hussain, 2004). For this study, environment simply means the surroundings in which life exists. A 'Tourism Environment' is an environment where tourism exists and includes all-natural, synthetic, and symbiotic products that provide tourism-related services at a destination. Thus, it has three components, viz., Natural, Synthetic and symbiotic elements. Their mélange forms the tourism environment. Travel agencies, the transport sector, the hospitality sector, entertainment, recreation, the natural environment (tourist attractions), tourists, security, tourism goods, travel agents are all the components of the tourism environment. The natural environment, tourism base, and a valuable tourist attraction source are part of the tourism environment. The tourism

environment includes critical elements of a natural environment as the prime attraction, Synthetic Environment, Symbiotic Environment, an optimum number of eco-friendly visitors, travel agents, transport sector, hospitality sector, and entertainment activities (Kumar, 2018). Rodday, Biwal, & Joshi, (2009) called these components as tourism products. Han & Ryu, (2009), Bitner, (1992) Reimer & Khan, (2005), Booms & Bitner, (1982), Wakefield & Blodgett, (1996) mentioned that researches in environmental Psychology found that human behavior is highly influenced by and is strongly associated with the physical or synthetic environment. They also mentioned it is incumbent upon the firms or marketers to make their physical environment more pleasant, innovative, healthy, and attractive. Because customers intentionally or unintentionally sense the physical environment before, during, and after visiting any business unit, particularly in restaurants and hotels. Applying structural equation modeling, they found that décor and artifact, spatial layout, and ambient conditions significantly affected price perception, whereas décor and artifacts significantly influenced customer satisfaction. He also found that both Price perception and customer satisfaction are essential predictors of customer loyalty. Chang, (2009) applying structural modeling, found a causal relationship between the physical environment and customer satisfaction, and customer satisfaction has a significant impact on the return intentions of the customers. Some other studies, such as Ali, Amin & Ryu, (2015), Mehrabian & Russel, (1974), Dareley & Gilbert, (1985), Holahan, (1986), Russel & Parrat, (1980), Tam, (2010) posited that previous consumption patterns and customer satisfaction mainly influence customer satisfaction and superficial values. The outcome of this previous consumption experience is an important factor in future profitability. Lancaster, (1960) in his theory of consumer behavior, he Posited that consumers do not receive utility directly from goods and services; instead, they derive utility from attributes or characteristics of these goods and services. Before him, most economists, especially Marshall and others, posited that consumers directly get satisfaction from consuming goods and services. Similarly, as Lancaster has mentioned above, Negre, Hernandez & Moreno-Gil, (2018) suggested that leisure actives, the inward attributes of tourist destinations, are essential determinants of tourist expenditure patterns. They found that the number and types of activities available at a tourist destination significantly impact tourist expenditure patterns. The tourist who performs fewer activities spends less than those who perform more activities. They also found that some activities generate less Income than others. This difference is created by time constraints that mean the time spent by a tourist on his performing activity. If he spends more time performing an activity, he will spend more on that activity and spend more time and money at a destination. So, it is necessary to increase the number of tourist spots and increase the number of leisure activities which generate revenue in the future. Bishoyi, (2007) & Tisdell, (2003) posited that the environment provides an impotent role in tourism. Without this, the word tourism would not exist. Therefore, most economists found it necessary to assess the economic value of natural resources. Randall & Stoll, (1983) first used the concept of total economic value. In environmental economics, mostly suggested methods to value natural resources are the Contingent Valuation method, Travel

Cost and Hedonic price methods, etc. Hussain & Islam, (2017) mentioned that tourism could be the best opportunity for revenue maximization if properly managed, maintained, and developed. The Contingent Valuation Method (Willingness to pay method) and Travel Cost Method found that consumer surplus value varies from 1.24 to 3.24 US \$ per person and Willingness to pay varies from 0.06 to 0.10 US \$ per person in four tourist spots under his study domain. The estimated recreational value ranges from 0.06 to 0.84 million US \$ under the Travel Cost Method and ranges from 0.002 to 0.029 million US \$ Contingent Valuation Method. These positive recreational values suggested that these tourist spots have a great potential for generating benefits for the economy. Therefore, it is incumbent upon the government or policymakers to develop these tourist spots in more, better, and more modern way and some policy initiatives must be taken to explore such more tourism spots and generate more benefits from them. Political stability is a necessary and sufficient condition for promoting tourism at a destination. It has been observed that tourism is the consequence of peace. If there is peace, tourism will automatically boost. Parida, Bhardwaj & Chowdhury, (2017) mentioned the economic development and tourism promotion policies in India have attracted a large number of tourists. Still, at the same time, the increasing trend of crime rates and uncertainty had strongly halted the way of its development. Sustainability is an essential and sufficient condition for preserving tourism and tourism spots at a destination. In their book, Singh & Dowling, (2003) mention that the Universal Declaration of Human Rights of December 10, 1948, tourism is a universal and fundamental right of all citizens of the world. Ever since tourism is growing dramatically, new records in tourist arrivals, receipts, and expenditures were reached, each year increasing upon the previous. Brown, (1997) posited that this growing tourist arrival is fair but not free from disadvantages. It leads to severe consequences for the environment of the host country. To overcome these harmful effects on tourists, a carrying capacity strategy was suggested by some studies (Brown, 1997). Carrying capacity and openness are two important strategies useful in analyzing environmental and social impacts of tourism. The United Nations World Tourism Organization (UNWTO) mentioned in their 1992 report that carrying Capacity is the visitor's use of an area with a high level of satisfaction and minimum impacts on resources (Bishoyi, 2007).

METHODOLOGY

Secondary data has been used to fulfill the objectives of the study. The data has been collected personally from the offices of the Director Tourism Kashmir, Director Tourism Jammu, and Director Floriculture Kashmir. I have also used annual reports of the few departments and the significant works of different authors. For the data analysis, the method of carrying Capacity has been used.

Carrying Capacity

Jammu and Kashmir possess a great tourism potential in terms of gorgeous natural environmental resources and tremendous synthetic and elegant symbiotic environmental resources, which play an essential role in the state's

substantial tourism and economic development. But serious thought is needed for its sustainable development. Among the most important requirements for its sustainable development, securitization of the carrying capacity of the tourism environment is essential because its negligence will persistently show the signs of degradation and pollution. Bishoyi, (2007) in his book quotes that Brown, (1997) posited that this growing tourist arrival is fair but not free from disadvantages. It leads to severe consequences for the environment of the host country. Wall, (2019) while applying the concept of Carrying Capacity, mentioned that "over-tourism is not a new concept. It has a long history, and this issue attracts large attention to the need for careful planning and management of tourism, as well as respect for the residents of the tourist destinations". Some studies suggested overcoming these harmful effects of tourist carrying capacity strategy. Brown, (1997) Carrying capacity and openness are essential strategies for analyzing tourism's environmental and social impacts. The United Nations World Tourism Organization (UNWTO) mentioned in their 1992 report that carrying Capacity is the visitor's use of an area with a high level of satisfaction and minimum impacts on resources. Boulding, (1985) carrying Capacity and can be calculated by the formula given below".

$$\text{Carrying Capacity} = \frac{(\text{Area used by tourists})}{(\text{Average indival standard})}$$

The minimum tourist spot area per tourist, 50m² of the total tourism area, has been used as a standard to measure Jammu and Kashmir's carrying capacity. Tantrigama (1998) posited that three types of carrying capacity strategies are commonly used for analytical purposes, which are given below.

Ecological carrying capacity refers to the maximum number of tourists that an area can absorb before an ecological decline occurs.

Physical carrying capacity refers to the ceiling on tourist arrivals that a resource can cope with. It includes accommodation, catering, amenities, and transport facilities besides electricity, water supply, etc.

Environmental carrying capacity refers to the maximum number of tourists that an area can accommodate without harming the environment.

It is essential to note here that, in my view, both ecological and environmental carrying capacities are the same. Therefore, this study has the same meaning, and both of these terms have been used simultaneously. In this study, physical carrying capacity has also been used.

Natural Environment

The natural environment includes all the forest areas, water bodies, flora and fauna, deserts, wetlands, and the climate of any region, state, or country.

Table 1 given below shows that the Jammu region has the highest forest cover as compared to other geographical areas. It has about 51% of forest area, followed by Kashmir valley, which has about 46% forest area, while Ladakh has only 0.06% of forest area. But there arise few questions Viz.

- Whether this whole forest area can be used for tourism or not?
- Whether this forest area is feasible and accessible to travel or not?
- Whether this area has tourism potential or not?
- And finally, whether this area has a carrying capacity of bearing the burden of tourist flow?
- If so, how much flow can we bear so that we can sustain this area for the future?

These all questions need a greater apprehension. Before throwing much light on this topic, we will first elucidate the other categories of forest classified by the department of forestry from time to time that will clearly help us understand and answer the above questions. The forest cover of Jammu and Kashmir has been classified on the basis of the canopy density, viz. very dense forests, moderately dense forests, and open forests.

Table 1. Region wise forest area (Square kilometers).

Region	Geographical Area	Forest Area	Percentage
Jammu	15948	8128	50.97
Kashmir	26293	12066	45.89
Ladakh	59146	36	0.06
Total	101387	20230	19.95

Source: Digest of forest statistics 2015-2017

Table 2 below shows that most of the forest area is open. About 46% of forest area is open, 36% are moderate forests, and 17% are very dense forests. Now we can understand that 53% of forest area is not feasible and accessible to travel or tourism. Because 17% of very dense forests are not achievable, 36% of moderate forests are not accessible to travel. Only 46% of open forests can be used for travel and tourism, which is feasible and accessible. But there is another issue that further needs to be understood is that among 46% forest area that is 10587 Sq. kms only 7165 Sq. kms of the forest area is inside the actual line of control (LOC), and the rest 3422 Sq. kms are outside the line of control. Therefore, it is clear know that only 7165 Sq. kms, which is about 31% of the total forest area (23241 sq. kms) can be used for tourism and travel purposes. But there is another issue most of this land is under army occupation, and some of it is used to construct hotels on reference bases that I have observed from time to time. Some of it is unutilized for tourism purposes. Now to promote tourism and attract a massive number of visitors, we must develop and décor this forest area. We can also use some areas from moderate forest cover by exploring, expanding, and making them feasible and accessible.

Besides this forest area, we have many wildlife sanctuaries and national parks. These national parks and wildlife sanctuaries have a great tourism potential if being promoted and developed. At present, we 5 national parks, 14 wildlife sanctuaries, 8 conservation reserves, 8 protected area parks (which may be

included in the forest area), and 14 wetland reserves. Their area-wise description is given below in **Table 3**.

Table 2. Category wise forest area (Square kilometres).

Forest Type	Inside LOC	Outside LOC	Forest Area	Percentage
Very Dense forests	2728	1347	4075	17.53
Moderately dense forests	6119	2460	8579	36.91
Open forests	7165	3422	10587	45.56
Total	16012	7229	23241	100.00

Source: Digest of forest statistics 2015-2017

It shows that we have only five national parks with an area of 6830.07 sq. kms, which is about 6.74% of the state's actual geographical area (101387 sq. kms). Besides this, the table shows that we have 14 wildlife sanctuaries with 799.38 sq. kms, 8 protected area reserves with an area of 521.192 sq. kms and 8 conservation reserves with an area of 269.25 sq. kms. It also shows that in total, we have 8419.90 Sq. kms protect conservation reserves, which is about 8.45% of the state's actual geographical area (101387 sq. kms). Besides this, we have 14 wetland reserves with an area of 156.27 Sq. kms and 1230 water bodies can also be used for tourism. Their area-wise description is given in **Table 4** given below. It shows that Ladakh has a greater number of water bodies.

Table 3. Protected Conservation reserves.

Name	Number	Area Sq. kms
National Parks	5	6830.07
Wildlife Sanctuaries	14	799.38
Conservation Reserves	8	269.25
Protected Area	8	521.192
Total	35	8419.90

Source: Office of the Chief Wildlife Warden Department of Wildlife J&K

Table 4. Water resources - Lakes and Water Bodies.

Water resources	Number	Area in sq. kms
Wetland Reserves	14	156.27
Lakes and other Water Bodies		
Jammu	150	5.476500
Kashmir	415	203. 6612
Ladakh	665	545. 957
Total	1230	755.0947

Source: Department environment and ecology Srinagar

Symbiotic Environment

Besides this natural environment, erstwhile Jammu and Kashmir have a good symbiotic environment. A symbiotic environment is a combination of products created by blending natural attractions and built attractions. These products include parks, gardens, etc. Jammu and Kashmir State is world-famous for its Mughal gardens and splendors.

The area-wise description of some gardens is given in **Table 5**. It shows that the Kashmir region has the most significant number of parks and gardens. Ladakh and Jammu regions have fewer gardens and parks. It shows that the tulip garden in Srinagar has the highest area used for tourism, which is Asia's most extensive tulip garden. According to the floriculture department, the garden was visited by 2.59 lakh tourists within 29 days in 2019 and generated 79 lakh rupees from the entry tickets. From this, it can be understood how important and economical these symbiotic products are. With the development and promotion of these gardens and parks, the state would collect huge revenue that can be used for further development of the state.

Table 5. Area-wise descriptions of parks and gardens.

Name of the Park or Garden	Region	Area in Kanals
Tulip Garden	Srinagar	602
Botanical Garden	Srinagar	593
Nishat Garden	Srinagar	400
Shalimar Garden	Srinagar	284
Chesmashahi Garden	Srinagar	120
Pari Mahal Garden	Srinagar	33
Jarokabagh Garden	Ganderbal	42
Achabal Garden	Anantnag	68
Verinag Garden	Anantnag	68.50
Badamwari Garden	Srinagar	300
Bagh-E-Bahu Garden and others	Jammu	400
Garden and others	Ladakh	300
Total	All three	3210

Source: Department of Floriculture Kashmir and Jammu

Environmental Carrying Capacity

Environmental carrying capacity refers to the maximum number of tourists that an area can absorb before ecological decline takes place. It has been observed above that among natural Environment 7165 sq. kms, which is about 31% of the total forest area (23241 sq. kms) can be used for tourism and travel purposes. Erstwhile, Jammu and Kashmir have an area of 755 sq.kms under water bodies and about 1.63 sq.kms (3210 kennels) under a symbiotic environment, which is a good source of tourism attraction. Erstwhile Jammu and Kashmir also

have an area of 8420 sq.kms under national parks, wildlife sanctuaries, conservation reserves, and protected areas. But there is an issue most of this land is under army occupation; some of it has been used to construct hotels on reference bases that have been observed during the field survey, and some of it is not utilized for tourism purposes. By considering these issues, if we assume that only half of the forest area can be used for tourism and we assume that area under conservation reserves may be included in forest area, and we leave the area under wetlands, and we also assume that only half the area under water bodies can be used for tourism we still have a very good amount of land and water resources that can be used for tourism. Half of the forest area is 3582sq.kms, half of the area's underwater resources are 377sq.kms, and the area under a symbiotic environment is 1.63sq.kms.If these figures are added, we get the area that comprises our total environment available for tourism.

$$\begin{aligned} \text{Total environment available for tourism} \\ &= 3582\text{sq. kms} + 377\text{sq. kms} + 1.63\text{sq. kms} \\ &= 3961\text{sq. kms} \end{aligned}$$

$$\text{Environmental Carrying Capacity} = \frac{3961 \text{ Sq. kms}}{50\text{m}^2}$$

$$\text{Environmental Carrying Capacity} = \frac{3961000000\text{m}^2}{50\text{m}^2}$$

$$\text{Environmental Carrying Capacity} = 79220000$$

It can be inferred that about eight crore tourists are allowed to visit Jammu and Kashmir per year if this area is brought under the tourism map. During 2019, the total number of tourist visits to Jammu and Kashmir was 17215468. Therefore, we can conclude that carrying Capacity has not exceeded during 2019. It can also be inferred from this that the environmental carrying capacity of Jammu and Kashmir has not reached the threshold limit. Therefore, Jammu and Kashmir have great tourism potential, and it can increase tourist arrivals to a large extent by promoting it across the country and outside the country. It is important to note here that before the promotion, we must develop and décor this natural environment by making it accessible, attractive and affordable to all types of tourists.

Synthetic Environment

Another part of the tourism environment is the human Environment or manmade Environment. It includes all physical infrastructure of a destination such as accommodation facilities, roads, transport facilities, catering services, entertainment and recreation centers, theme parks, shopping and market facilities, etc. Human-made products also include fairs and festivals, cuisine, architecture, monuments, etc. are also created products that offer a wide range of services for pleasure, leisure, or business. It also includes both internal and external political stability at the destination. Tourism is a national asset. However, it depends upon good international relations among nations with minimum entry to enter in terms of permits, visas, currency language, etc. (Roday, Biwal & Joshi, 2009).

Tourism and Accommodation preferences

After reaching their preferred destinations, tourists need accommodation facilities for lodging, boarding, and resting purposes. A. K Bhatia, (2014) mentioned that accommodation plays a central and distinctive role in the tourism industry. It has been observed that tourists usually prefer clean, hygienic, and affordable accommodation. **Table 6** below shows the accommodation facilities available for tourists in Jammu and Kashmir. It shows that the 4486 accommodation facilities are available for visitors with a total bed capacity of 112841 in erstwhile Jammu and Kashmir State. In which 2685 accommodation facilities are available in Kashmir valley with a total bed capacity of 62542 beds, 898 accommodation facilities are available in Jammu with a total bed capacity of 36004 beds, and 903 accommodation facilities are available in Ladakh region with a total bed capacity of 14295 beds. It also shows that 315 A grade accommodations with a total bed capacity of 17663 beds; 319 B grade accommodations facilities with a total bed capacity of 10275 beds; 107 C grade accommodations facilities with a total bed capacity of 45391 beds; 1945 guest houses with a total bed capacity of 34900 beds and 910 houseboats with a total bed capacity of 4612 beds are available in erstwhile Jammu and Kashmir.

Table 6. Accommodation facilities available.

Category	Kashmir		Jammu		Ladakh		TBC
	Hotels	BC	Hotels	BC	Hotels	BC	
A	127	11804	37	664	151	5195	17663
B	155	7403	88	1100	76	1772	10275
C	314	12963	626	31300	67	1128	45391
Total	596	32170	751	33064	294	8095	73329
Guest Houses	1179	25760	147	2940	609	6200	34900
Houseboats	910	4612	-	-	-	-	4612
Grand Total	2685	62542	898	36004	903	14295	112841

Source: Director Tourism Jammu and Director Tourism Kashmir

Table 7 below shows the performance of accommodation facilities provided by the Jammu and Kashmir tourism development corporation. It indicates that, on average, 50% of accommodation facilities remain vacant during

this decade in the Kashmir region. The table also shows that, on average, 50% of accommodation facilities remain vacant during this decade in the Jammu region.

Table 7. Performance of accommodation facilities in Kashmir division owned and maintained by JKTDC.

Year	Availability	Rented out	Occupancy Percentage	Revenue
2010-11	169725	80130	47%	1223.63
2011-12	170329	90819	53%	1593.39
2012-13	174690	93427	53%	1728.53
2013-14	167538	92559	55%	1891.98
2014-15	168268	81686	49%	1787.02
2015-16	170786	86787	51%	2134.66
2016-17	203391	82615	41%	2134.66
2017-18	203943	84783	42%	2116.14
2018-19	203650	86632	43%	1898.69
Average	-	-	50%	-

Source: JKTDC

Table 8 below shows the performance of accommodation facilities provided by the Jammu and Kashmir tourism development corporation in Ladakh. It indicates that on average, 88% of accommodation facilities remain Vacant during this period in the Ladakh region.

Table 8. Performance of accommodation facilities in Ladakh division owned and maintained by JKTDC.

Year	Availability	Rented out	Occupancy Percentage	Revenue
2016-17	3650	428	12%	5.24
2017-18	3424	330	10%	4.41
2018-19	3424	219	6%	7.82
2019-20	3424	219	6%	9.88
Average	-	-	12%	-

Source: JKTDC

Table 9 given below shows the performance of accommodation facilities provided by the Jammu and Kashmir tourism development corporation in Jammu.

It indicates that on average, 50% of accommodation facilities remain vacant during this period in the Jammu region.

Table 9. Performance of accommodation facilities in Jammu division owned and maintained by JKTDC.

Year	Availability	Rented out	Occupancy Percentage	Revenue
2010-11	146730	64217	44%	652.36
2011-12	150060	71068	47%	754.81
2012-13	148155	74101	50%	873.16
2013-14	147110	66636	45%	873.16
2014-15	149300	63364	42%	952.07
2015-16	150792	57917	38%	896.18
2016-17	149102	60831	41%	985.50
2017-18	144710	58846	41%	992.23
2018-19	146730	60044	41%	908.70
Average	-	-	50%	-

Source: JKTDC

Carrying Capacity

Physical carrying capacity refers to the ceiling on tourist arrivals that a resource can cope with. It includes accommodation, catering, amenities, and transport facilities besides electricity, water supply, etc. United Nations World Tourism Organization (UNWTO) mentioned in their 1992 report that carrying Capacity is the level of visitor's use of an area with a high level of satisfaction and minimum impacts on resources (Bishoyi. D., 2007). Minimum tourist spot area per tourist bed may have been used as a standard to measure the state's carrying capacity.

Based on those mentioned above standard one-bed space per tourist is required to provide accommodation to every tourist. The maximum number of tourists allowed to visit at a point of time to Jammu and Kashmir state is:

$$\frac{\text{Total number of bed capacity}}{1} = 112841/1 = 112841$$

That means that Jammu and Kashmir have 112841 beds available for tourists at a point in time. Usually, hospitality managers take 24 h to check out from an accommodation facility. Suppose a tourist's checkout from an accommodation facility within 24 h; he has to pay the rent only for a night. In that case, otherwise, he may be charged for the second night if he is checking out from an accommodation facility after 24 h. Therefore, we say that one day stay or one-night stay is equal to 24 h. Thus, we can say that Jammu and Kashmir have 112841 beds available for tourists per day. If we take this observation as a base, we can calculate how many tourists can visit Jammu and Kashmir per day in the same way for a month and consequently for a year. That means 112841 tourists

can visit Jammu and Kashmir daily or within 24 h. If this amount is multiplied by 30 days, we get the figure for the one month:

$$112841 * 30 = 3385230$$

If this amount is multiplied by 365, we get the figure for the year:

$$112841 * 365 = 41186965$$

It shows that 3385230 tourists can visit per month to Jammu and Kashmir. It also shows that 41186965 tourists can visit yearly to Jammu and Kashmir. If we look at the tourist arrival figure of the year 2018, we can see that only 17215468 tourists visited Jammu and Kashmir in 2018. That means we have enough Capacity for accommodation facilities, and we can provide accommodation facility up to 412 lakh tourists, but our flow is near about 200 lakhs only. So, this whole analysis of accommodation highlights that we do not need more accommodation facilities until our tourist flow crosses the figure of 412 lacs mark.

CONCLUSION

This study concluded that Jammu and Kashmir's environmental carrying capacity had not reached the threshold limit of natural and symbiotic environments. Therefore, Jammu and Kashmir have great tourism potential in its natural and synthetic environments. It was also concluded that Jammu and Kashmir have enough of Capacity of accommodation facilities, and it can provide accommodation facility up to 412 lakh tourists. Still, our flow is near about 200 lakhs only and. So, this whole analysis of accommodation highlights that Jammu and Kashmir have great tourism potential in terms of synthetic environment. Therefore, it did not need more accommodation facilities until the tourist flow crosses the figure of 412 lacs mark. Therefore, a complete ban should be imposed on the construction of hotels in the whole of Jammu and Kashmir, particularly around tourist destinations and in forest areas. Instead, some incentives should be given to these hoteliers to develop modern facilities in these accommodation facilities so that tourists should not feel any kind of dissatisfaction.

Finally, it was also concluded that Jammu and Kashmir have great tourism potential. It can increase tourist arrivals to a large extent by promoting it across the country and outside the country. It is important to note here that before the promotion, Jammu and Kashmir authorities must develop and décor this tourism environment by making it accessible, attractive and affordable to all types of tourists.

REFERENCES

- Bishoyi, D. (2007). *Tourism and Economic Development*. New Delhi India Discovery Publishing House.
- Brown. K, Turner. K. R, Hammed.H, Bateman. I. (1997). Environmental carrying capacity and tourism development in the Maldives and Nepal. *Environmental Conservation*, 24, 316-325.
- Butler. W.R. (2000). Tourism and the Environment: A geographical perspective. *Tourism Geographies* 2, 337-358.

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- Chattopadhyay, K. (2008). *Understanding Tourism Economics*. New Delhi India Kanishka Publishers Distributors.
- Briassoulis, H. (2002). Sustainable Tourism and the Question of the Commons. *Annals of Tourism Research*, 29, 1065-1085.
- Briassoulis, H., van der Straaten, J. (1992). *Tourism And The Environment An Overview*. In Springer Science Business Media Dordrecht.
- Han, H. & Ryu, K. (2009). The Roles of the Physical Environment Price Perception, and Customer Satisfaction in Determining Customer Loyalty in the Restaurant Industry. *Journal of Hospitality & Tourism Research*, 33, 487-510.
- JK Economic survey (2017). Director Economics and Statistics government of J&K.
- Kumar, A. A. (2018). Tourism in Kashmir Valley Problems and Prospects. *Asian Review of Social Sciences*, 7, 103-107.
- Kumar, A. A. (2019). Tourism and Tourism Environment- A Study of Kashmir Valley. *International Journal of Management Review*, 7, 285-309.
- Lancaster, J. (1966). A New Approach to Consumer Theory. *A New App The Journal of Political Economy*, 74, 132-157.
- Roday, S., Biwal, A., & Joshi, V. (2009). *Tourism Operations and Management*. Oxford University Press New Delhi.
- Sadler, B. (1988). *Sustaining Tomorrow and Endless Summer: On Linking Tourism Environments in the Caribbean*. Environmentally Sound Tourism in the Caribbean, Calgary Alberta University of Calgary Press.
- Stefanica, M & Butnaru, I. G. (2015). Research on tourists perception of the relationship between tourism and environment. 7th International Conference on Globalization and Higher Education in Economics and Business Administration, 20, 595-600.
- Singh, Timothy, & Dowling. (2003). *Tourism in destination communities*. Oxon UK CABI Publishing Oxon UK.
- Tisdell, C. (2003). Valuation of Tourism's Natural Resources. *Economics, Ecology and the Environment*, 1-29.