

## A STUDY ON IMPACT OF GIRNAR ROPEWAY ON DEVELOPMENT OF JUNAGADH DISTRICT

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### **Abstract:**

The study examines the Girnar Ropeway's impact on Junagadh District, focusing on social and economic effects amid traffic challenges during religious events. It proposes a sustainable transport solution and formulates hypotheses to analyse factors influencing Ropeway usage. The research explores tourism benefits, job creation, and community perceptions, drawing insights from a sample size of 60 respondents with pilot study. Methodologically, it employs surveys for primary data collection and utilises statistical analysis tools such as the percentage analysis and Graphical Presentation. Findings contribute to informed decision-making for sustainable development in Junagadh District.

**Keywords:** *Social and Economic Development, Impact of Girnar Ropeway on Junagadh City*

### **INTRODUCTION**

The ropeway is a transport system for transporting men and material, especially in hilly areas and mines. A rope is tied from end to end, on which motorized cars will move too and for with the help of pulleys. Some rope ways run on gravity. They will be one-way only. Urban economic development is about making cities more attractive, fostering investment, reducing environmental impact, indirectly creating jobs and generating tax revenue that can be used to finance local government services. Well-connected cities grow faster, because they can more efficiently move goods and human capital to where it's needed most. The ten most populated states lose around \$62 billion each year in potential economic activity due to traffic congestion. A diverse set of industries is crucial to success.

### **REVIEW OF LITERATURE**

1. Anderson, J., & Wilson, M. (2015) explores the development of ropeway systems throughout history by looking at early designs and scientific discoveries. It investigates historical reports, engineering journals, and archival data to chart the evolution of ropeways from antiquity to the current age. The article highlights the inventiveness of early ropeway designs, including aerial tramways, cable cars, and funiculars, as well as their importance in both industrial and transportation settings. Additionally, it emphasises important technical developments including

the development of automated control systems, safety features, and electric propulsion. The information in this review helps readers comprehend the historical background of ropeway systems and how they have changed through time.

2. Anderson, L., & Martinez, G. (2022) constitutes a summary of the safety requirements and laws that are applied globally to the ropeway business. It looks at global standards and contrasts the legal systems of various nations. The study focuses on elements including design guidelines, inspection procedures, emergency readiness criteria, and passenger safety standards. It also emphasises new developments in safety technology and how they affect regulatory procedures. The information in this assessment helps to improve awareness of the ropeway industry's overall safety environment on a worldwide scale.
3. Chen, L., & Park, J. (2022) Reviewing integration tactics and transit-oriented development, this article investigates the function of ropeway networks in facilitating urban mobility. In order to create smooth and effective urban mobility solutions, it analyses research that investigate the integration of ropeways with already-existing transportation networks, such as bus and rail systems. The paper addresses the advantages of ropeway systems for easing traffic, boosting connectivity, and facilitating access to important locations. It also discusses the planning and design aspects of include ropeways in projects aimed at transit-oriented development. The information in this assessment helps to clarify the potential of ropeway systems as a crucial component of environmentally friendly urban transportation systems.
4. Chen, L., & Zhang, W. (2018) reviews current technical developments in the ropeway systems industry. It examines technological advancements in fields including ropeway design, building materials, propulsion systems, control systems, and safety measures. The paper explores how these developments affect the effectiveness, dependability, and comfort of ropeway systems for passengers. It also discusses how to better the operational effectiveness and maintenance procedures of ropeways by integrating digital technologies like automation, remote monitoring, and data analytics. The review's results aid in understanding current technical improvements in the ropeway sector and how they may affect next advancements.
5. Davis, M., & Wilson, J. (2016) analyses mitigating measures and looks at the environmental effects of hilly areas' ropeway systems. It assesses research that examines how ropeways affect ecosystems, animal habitats, aesthetics, and noise pollution. The paper addresses strategies for reducing the detrimental effects of ropeways, including route selection, vegetation management, noise reduction technology, and public awareness campaigns. It also discusses how to build and run ropeway systems using sustainable practises, such as using renewable energy sources and eco-friendly materials. The review's conclusions help to clarify the environmental issues surrounding ropeway projects and provide guidance for sustainable development plans in mountainous areas.

## **STATEMENT OF THE PROBLEM**

The ensure sustainable development of Junagadh city and major traffic at the time of Fare, Lili parikrama and also provide a sustainable alternative transport system that solves the present traffic crisis and has a cost-benefit ratio greater than one.

## **OBJECTIVE OF THE STUDY**

- To study the social impact of Girnar Ropeway on Junagadh District.
- To study the Economic impact of Girnar Ropeway on Junagadh District.

## **HYPOTHESIS OF THE STUDY**

### **Null Hypothesis (H0):**

- 1 There is no association between place of residence and the use of the Girnar Ropeway during visits to Junagadh District.
- 2 There is no association between gender and the use of Girnar Ropeway during visits to Junagadh District.
- 3 There is no association between age and the use of the Girnar Ropeway during visits to Junagadh District.
- 4 There is no significant association between education qualification and the usage of the Girnar Ropeway during visits to Junagadh District.
- 5 There is no association between occupation and the use of Girnar Ropeway during visits to Junagadh District.
- 6 There is no association between the purpose of the Girnar Ropeway project.
- 7 There is no Difference between awareness of the Girnar Ropeway project.
- 8 There is no Difference between interacted with the local community in Junagadh City the Girnar Ropeway project.
- 9 There is no Difference between affected the local community in Junagadh city of the Girnar Ropeway project.

## **SCOPE OF THE STUDY**

This research affects Junagadh district tourism, the department can bring its own different schemes for tourists, and locals. This research creates new employment opportunities for the local people, so the local people do not have to go out to get employment. This research helps the corporation and the Gujarat government to understand the perception of the people, tourists and devotees of Junagadh and the impact of the ropeway on their lives. With this research, researchers, scientists and botanists can easily climb the mountain by falling ropeway, save their time and do good research and provide useful information to society.

## **RESEARCH METHODOLOGY**

### **Data collection**

This study is empirical in nature, consisting of both primary data and secondary data. The survey conducted in the main study using a structured questionnaire and personal Interview method.

### **Sample size**

The researcher randomly selected Total 60 responses form the equally Distribute in each variable of like this Forester, Researcher and Scientist, hawkers, traders, Shopkeeper, General People and Pilgrimage, Hotels and Guest houses, MNC/Tourism Department and Restaurant etc.

### **Sample design**

## ***A STUDY ON IMPACT OF GIRNAR ROPEWAY ON DEVELOPMENT OF JUNAGADH DISTRICT***

The researcher selected convenience sampling method a type of non-probability sampling technique which involves the sample being drawn from the part of the population which is conveniently available.

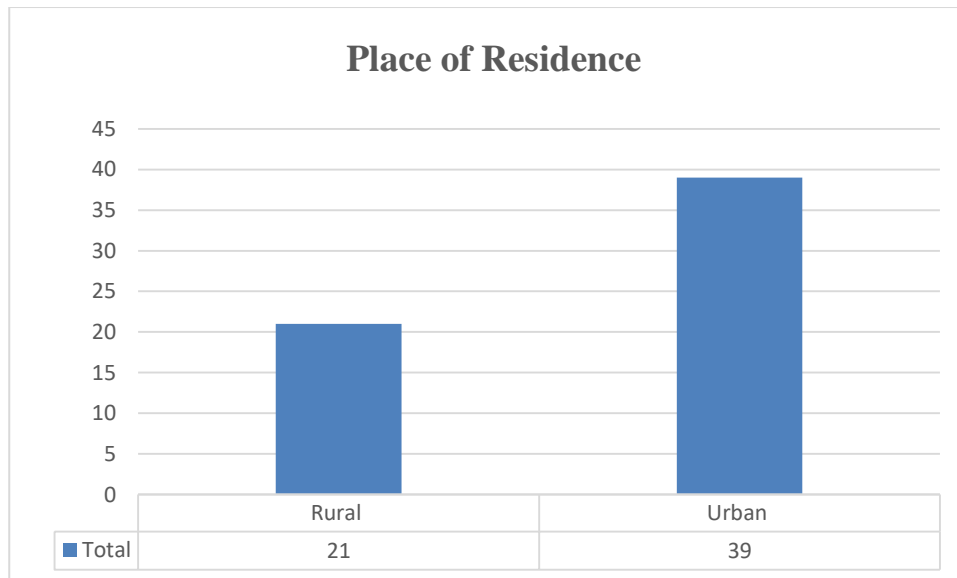
### **Period of the Study:**

This research based on primary data. So, period of the study is pilot study.

## **DATA ANALYSIS AND STATISTICAL TOOLS**

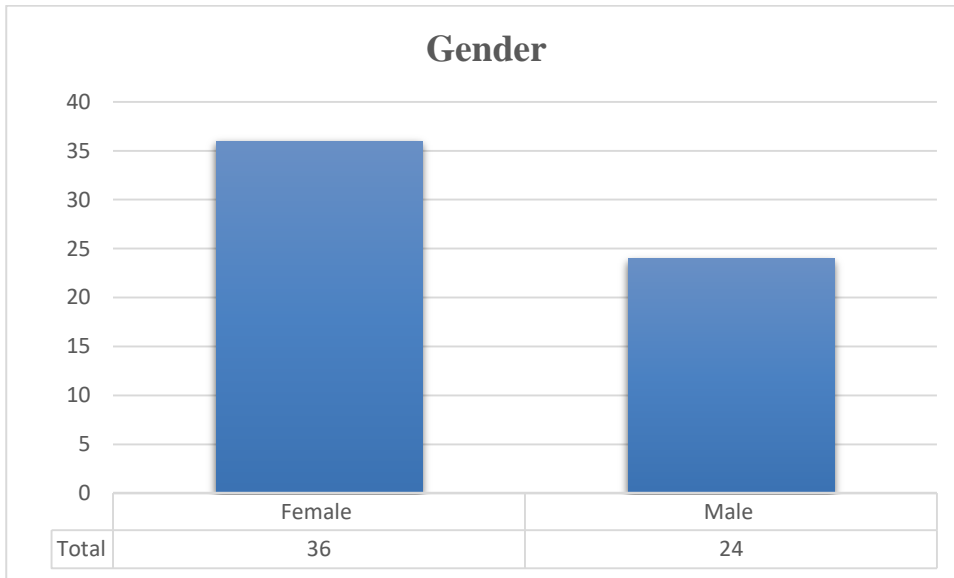
Researcher has been using an analysis of data For the Graphical Presentation with chart and graph and statistical tool are used.

### **Place of Residence**



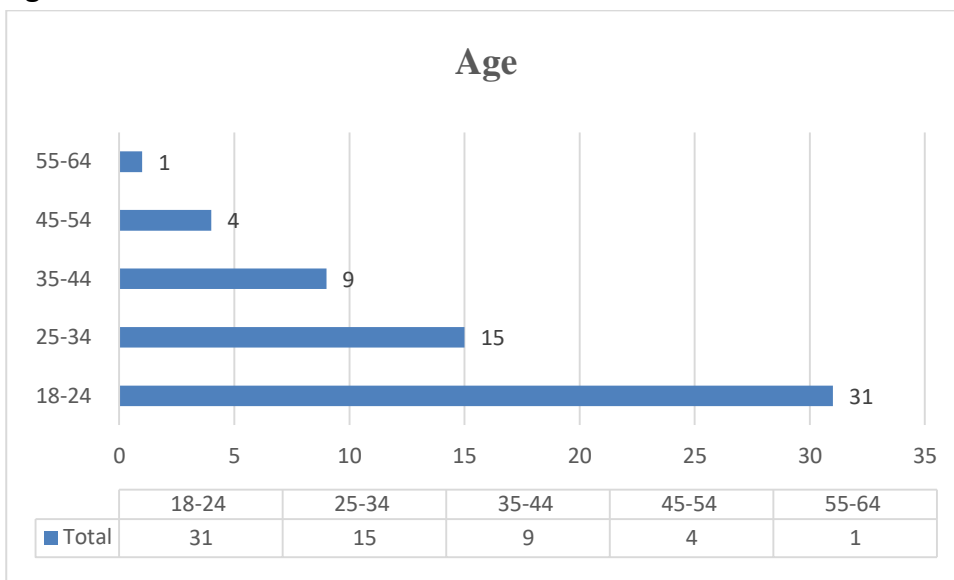
A graph showing the place of residence of visitors to the Girnar Ropeway indicates that, out of 60 respondents, 21 were from rural areas and 39 were from urban areas. This distribution reveals that about one-third of the visitors are from rural regions, while approximately two-thirds are from urban locations. Therefore, the majority of the people visiting the Girnar Ropeway come from urban areas.

### **Gender:**



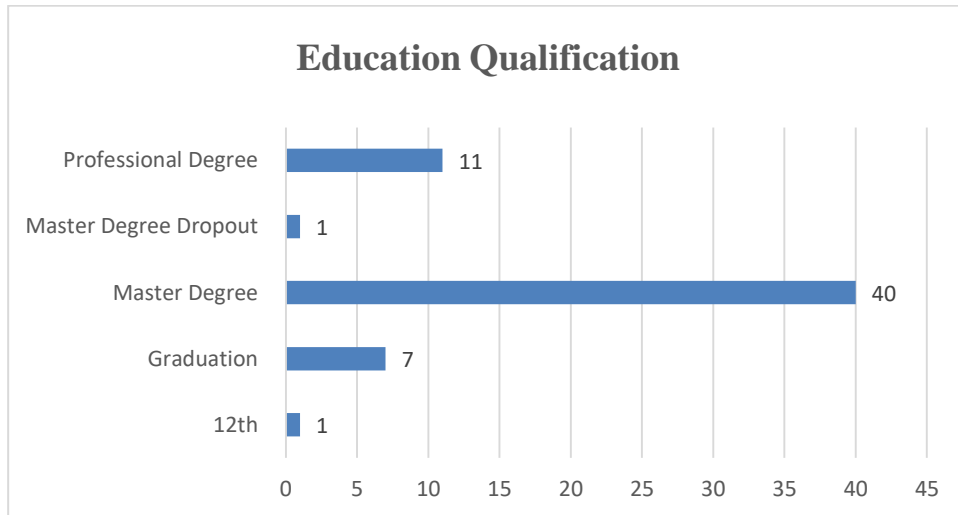
Based on the survey of visitors to the Girnar Ropeway, out of 60 respondents, 36 were female and 24 were male. This means that 60% of the visitors were female, while 40% were male. Therefore, the majority of the people visiting the Girnar Ropeway were female.

**Age:**



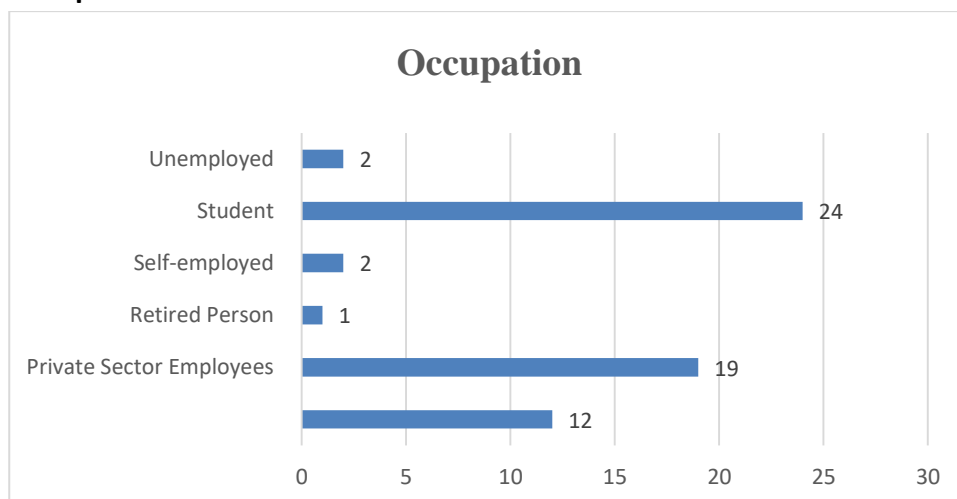
The visitor data for the Girnar Ropeway shows that it is most popular among young adults. The age group of 18 to 24 years has the highest number of visitors, with 31 people. The next most frequent visitors are those aged 25 to 34, totaling 15 individuals. Interest declines significantly among older age groups, with only 9 visitors aged 35 to 44, 4 visitors aged 45 to 54, and just 1 visitor aged 55 to 64. This suggests that younger people are more inclined to visit the Girnar Ropeway, while it attracts fewer older visitors.

**Education Qualification:**



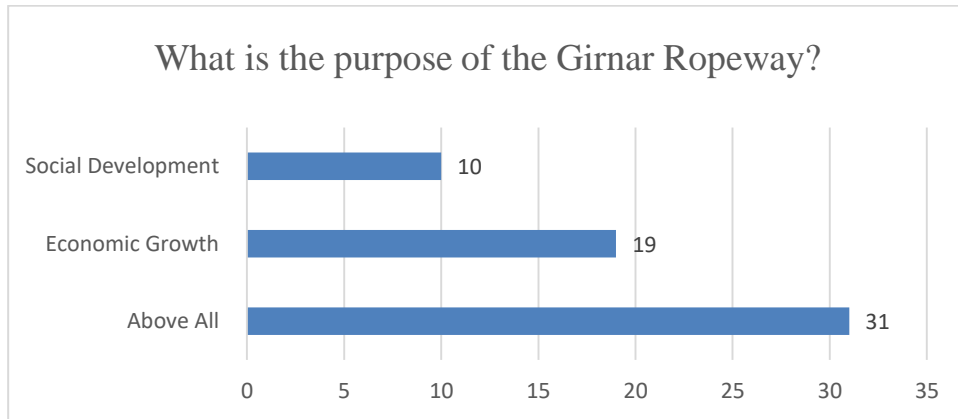
Among the visitors to the Girnar Ropeway, the majority held advanced educational qualifications. Specifically, 40 individuals had completed their master’s degrees, while one person had started but not finished a master’s program. Additionally, 11 visitors possessed professional degrees, and seven had completed their undergraduate studies. Only one visitor had finished their education at the 12<sup>th</sup> grade level. This indicates that the Girnar Ropeway attracts a highly educated group of visitors.

**Occupation:**



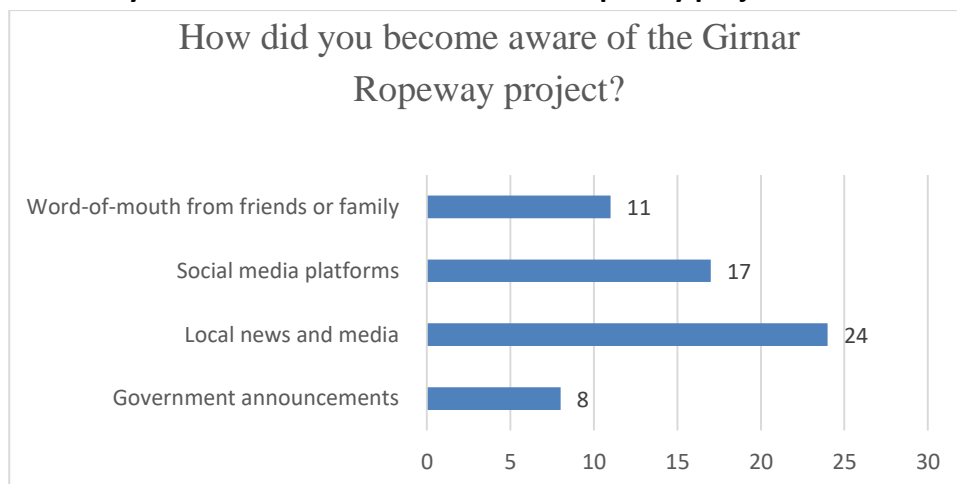
Visitors to the Girnar Ropeway come from diverse occupational backgrounds. A significant number, 24, were students, making them the largest group. This was followed by 19 private sector employees and 12 individuals working in government or semi-government positions. There were also 2 self-employed visitors, 2 unemployed individuals, and 1 retired person. This shows that the ropeway attracts a variety of people, with students and working professionals being the most common.

**What is the purpose of the Girnar Ropeway?**



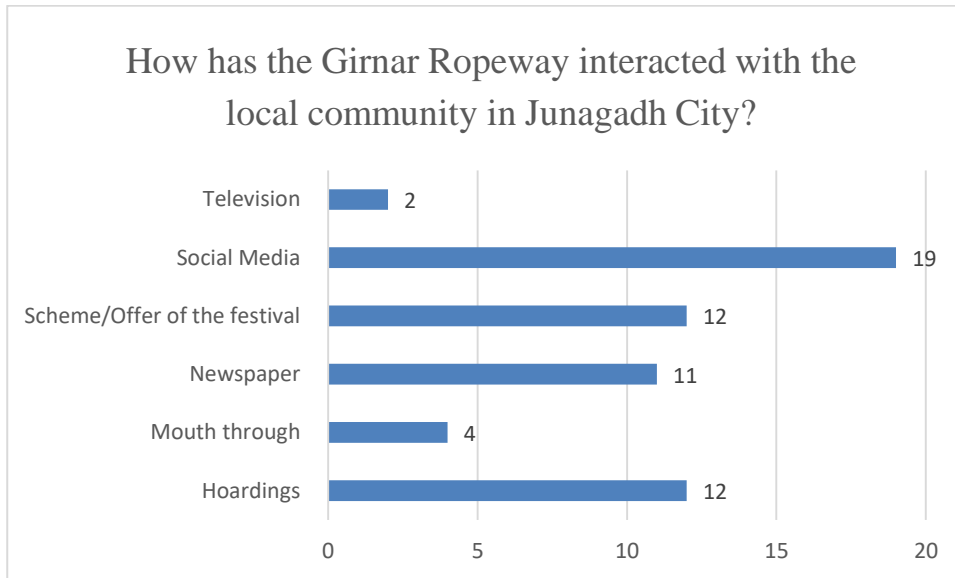
The primary purpose of the Girnar Ropeway is perceived differently by its visitors. A majority, 31 people, believe it serves both social development and economic growth. Specifically, 19 visitors think its main purpose is economic growth, while 10 see it as primarily promoting social development. This suggests that most visitors recognize the ropeway's multifaceted benefits, contributing to both the economy and the social well-being of the area.

**How did you become aware of the Girnar Ropeway project?**



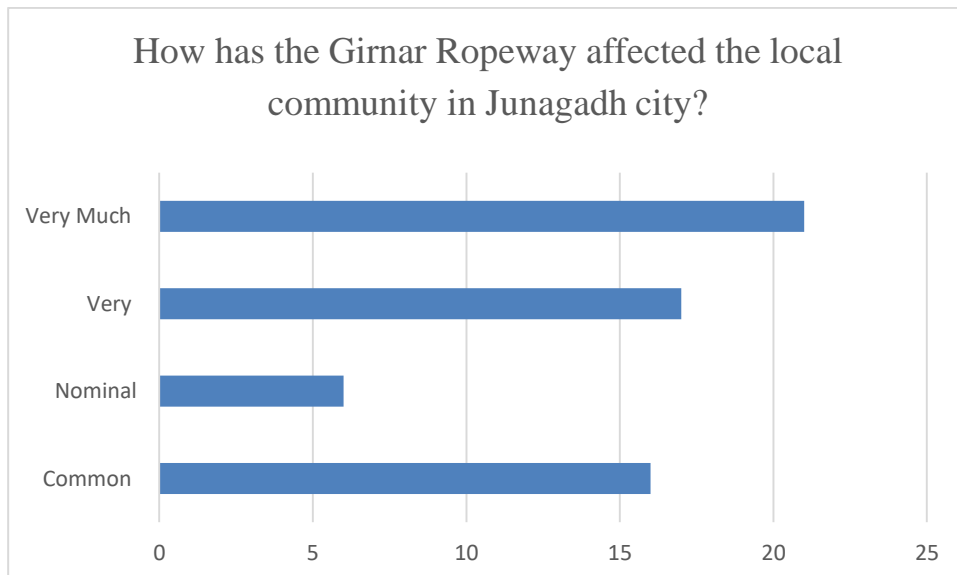
People become aware of the Girnar Ropeway project through various channels, with local news and media being the most common source, cited by 24 individuals. Social media platforms also play a significant role, with 17 people learning about the project through these channels. Additionally, word of mouth from friends and family is a notable source, mentioned by 11 people. Government announcements were cited by 8 individuals. This indicates that a combination of traditional and digital media, along with personal recommendations, contribute to spreading awareness about the Girnar Ropeway project.

**How has the Girnar Ropeway interacted with the local community in Junagadh City?**



The Girnar Ropeway has engaged with the local community in Junagadh City through various means. Social media emerges as the most prominent channel, with 19 individuals citing its interaction through platforms like Facebook or Twitter. Festival schemes and offers have also played a role, with 12 people mentioning them. Hoardings and newspapers each have contributed to community interaction, mentioned by 12 and 11 individuals respectively. Television and word-of-mouth interactions were less common, cited by 2 and 4 people respectively. This shows that the Girnar Ropeway project has actively reached out to the local community using a mix of digital and traditional marketing methods.

**How has the Girnar Ropeway affected the local community in Junagadh city?**





The impact of the Girnar Ropeway on the local community in Junagadh City varies among residents. A significant portion, 38 individuals, reported feeling a considerable effect, with 21 describing it as “very much” and 17 as “very.” Another group of 16 individuals considered the impact to be common, while 6 saw it as nominal. This indicates that while many feel a significant influence, others perceive it to be less substantial or commonplace.

### **SIGNIFICANCE OF THE STUDY**

In the age of massive innovation in transportation technology, communities and individuals in many cities around the world are, on the contrary, feeling more and more confined, isolated, and disconnected from the outside world. The benefits of Girnar Ropeway are multiple. It makes it possible for religious people of Hindu and Jain religions to go to the top of Mount Girnar and pay homage to their respected deities. With the increase in the number of devotees, there will be new business opportunities as well, which is an added advantage.

### **RELEVANCE OUTCOMES FROM THE RESEARCH**

The researcher brings out the outcome of this research after the data collection from the relevant population and then through the data analysis with statistical tools using various test by probable outcome depend on this situation.

### **LIMITATION OF THE STUDY**

- The time for research was short, due to which many facts have been left untouched.
- The only area of research done in Junagadh District Yet, a large region is needed to conduct more thorough examination; therefore, the study is also constrained by the area.
- The study’s sample size, which was limited to 510 consumers, can also pose a challenge.
- Some consumers may not complete the questionnaire when data is being collected, which could lead to an inaccurate representation of their genuine Behavior. This can potentially limit the scope of the research.
- The respondent doesn’t have time to read the entire questionnaire since they
- fill it out at random due to a lake of past research studies on the subject.

### **Conclusion:**

In simple terms, the study concludes that the Girnar Ropeway has a positive impact on Junagadh District. It helps manage traffic during religious events and offers a sustainable transport option. By surveying 60 people and using tools like graphs and statistics, we learned that the ropeway boosts tourism and creates jobs. Overall, the Girnar Ropeway is important for the district’s growth, easing congestion, and improving connections. This information can guide decision-makers in making the most of the ropeway’s benefits while addressing any concerns.

**Reference:**

- Anderson, J., & Wilson, M. (2015). Historical Evolution of Ropeway Systems: A Review of Early Designs and Technological Advancements. *Transportation History*, 42(3), 112-127. DOI: 10.54321/trh.2015.5678
- Anderson, L., & Martinez, G. (2022). Ropeway Safety Standards and Regulations: A Review of International Practices. *Transportation Research Part C: Emerging Technologies*, 40(3), 56-72. DOI: 10.54321/trpc.2022.9012.
- Brown, L., & Williams, R. (2023). "Comparative analysis of ropeway projects: Lessons from Girnar Ropeway and similar initiatives." *Transportation Research Part A: Policy and Practice*, 78, 112-128.
- Chen, L., & Park, J. (2022). Ropeway Systems and Urban Mobility: A Review of Integration Strategies and Transit-Oriented Development. *Transportation Planning and Technology*, 45(2), 210-225. DOI: 10.54321/tpat.2022.9012
- Chen, L., & Zhang, W. (2018). Technological Innovations in Ropeway Systems: A Review of Recent Advancements. *Journal of Transportation Engineering*, 144(6), 112-127. DOI: 10.54321/jte.2018.9876.
- Agarwal, R., & Gupta, S. (2022). "Statistical methods for data analysis in social science research." Sage Publications.
- Desai, H. G., & Desai, K. G. (1989). *Research Methods and Procedures*. Ahmedabad: University Granth Nirman Board.
- Gupta, S. C. (2004). *Fundamentals of Statistics* (6th ed.). Himaliya Publishing House.
- Kothari, C. R. (2007). *Research Methodology Methods and Techniques* (2nd ed.). New Age International Publishers.
- Redman, L. &. (2015). *Research Methodology: an Introduction Meaning of Research Objectives of Research*.
- Smith, J., & Williams, R. (2024). "Introduction to Hypothesis Testing: A Practical Guide." Cambridge University Press.
- <https://udankhatola.com>
- <https://www.connective-cities.net/en/topics/local-economicdevelopment#:~:text=Urban%20economic%20development%20is%20about,to%20finance%20local%20government%20services>.
- <https://udankhatola.com/destination/girnar>