

# Travelling Viewed Statistically

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**Abstract:** The aim was to study the people's views about travelling on the basis of very much growing sector, Tours and Travels. As travelling is the only thing that you buy, makes you richer!! A 25-item Self designed questionnaire was used to collect data regarding tour, people have ever experienced in India and Abroad with travel companies or without travel companies and their views about travel companies. A total of 468 people were surveyed as a sample of this study. The survey was conducted in various sectors of Pune, and the method to study the data characteristics and its analysis was decided and worked upon. Tours in India as well as Abroad, both have been fairly analyzed using various Statistical Tools like Exploratory Data Analysis, Chi-square Tests and tests for proportion. I have fairly concluded the reasons behind their views. My Study showed that Frequency of travelling is independent of the Annual Income of a person, the season of travelling and the place of travel chosen by people associated to each other. The way of travelling (with travel companies or without travel companies) and view about safety are dependent. The proportion of people who have travelled with travel companies in India and with travel companies to abroad is not same.

**Keywords:** Test for Proportion, Level of Significance, Chi – square tests for Independence of Attributes, Chi – square test for Goodness of fit.

## 1. Introduction

In this fast growing world and longing needs to survive, travelling to different places to explore the growing and changing world is becoming a drastic greed and moreover need of many in today's world. Different people have different views about various ways of travelling. Understanding today's needs and future demands, the travel companies are growing their business vast. The characteristics of interest is studying the various factors of travel [4] and tourism like factors that attract people towards travel company at the same time that lead people to travel without travel company and people's perception about travelling who have experienced tours through travel companies and without travel companies. To bridge people's views about travelling and perceptions of travel companies business, I felt the need to study the topic in detail.[11] Realizing this fact, I have made an attempt to understand study and get an insight into the travelling world.

## 2. Methodology

The questionnaire was prepared after reasonable consideration was given to the importance of each question. This questionnaire facilitated in the collection of data over a period of certain days. The questionnaire was briefly divided into two sections- travelling in India and travelling in Abroad. These sections were further sub-divided into two sections each – travelling through travel companies and travelling without travel companies. The people who have experienced both ways of travelling i.e. with travel companies and without travel companies were allowed to fill both the sections. These included questions on personal information, the tour they have ever experienced, views about travel companies and so on. A total of 468 people were surveyed and the data collected was analyzed for this study.[2] Once the survey had been conducted the method to study the data characteristics and its analysis was decided and worked upon.[3] The 'filter' function in Microsoft Excel [7] and the software 'R Deducer' were used to get appropriate data tables.[6] To this data tables, various Statistical Tools like Exploratory Data Analysis,[1] various

types of Graphical Representation, [5], Chi-square Tests[8] and Tests for Proportion have been applied.[13] The sample was drawn using purposive random sampling technique.[9]

## 3. Results (Data Analysis and Interpretation)

The classified data based on various characteristics is given below. [Based on sample]

**Table 1:** Number of People travelling: Total Population

Gender	Male	Female
No of people	217	251
In percentage	46.36%	53.63%

The number of females travelling in is greater than that of males.

**Table 2:** Number of People travelling abroad.

Gender	Male	Female
No of people	84	94
In percentage	47.36%	52.80%

The number of females travelling to abroad is greater than that of males

**Table 3:** Way of travelling: Total Population

	With Travel Companies	Without Travel Companies	Both
No of persons	67	272	129
In %	14.31%	58.11%	27.56%

The number of people travelling without approaching travel companies is greater.

**Table 4:** Way of travelling [In Abroad]: Total Population

	With Travel Companies	Without Travel Companies	Both
No of persons	60	93	25
In Percentage	33.70%	52.24%	14.0 %

The percentage of people travelling abroad without approaching travel companies is greater.

**Table 5:** Frequency of people who have experienced tour by travel companies in India

Company	Kesari	Veena World	Girikand	Country Club	Cox And Kings	Local Companies
No of persons	30	16	29	19	17	85
In percentage	15.30%	8.16%	14.79%	9.69%	8.67%	43.36%

For travelling in India, people prefer local companies more than the well-known companies.

**Table 6:** Frequency of people who have experienced tour by travel companies for Abroad

Company	Kesari	Veena World	Girikand	Country club	Cox And Kings	Local Companies
No of persons	22	9	7	5	7	36
In percentage	25.88%	10.58%	8.23%	5.88%	8.23%	42.35%

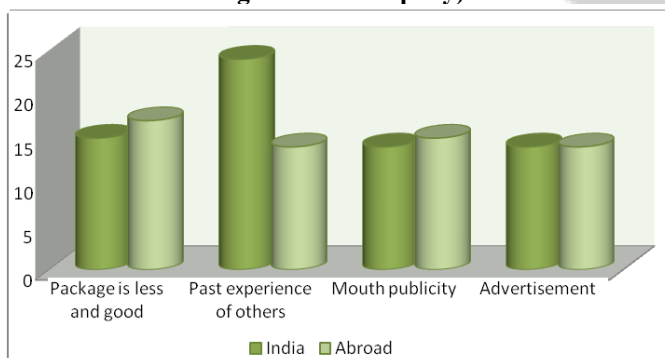
For Abroad tours, people prefer local companies more than the well known companies.

**Table 7:** Reasons of choosing travel company by people who have travelled through travel companies in India.

Reason	Packages are less	Mouth publicity	Past experience	Advertisement
No of people	53	61	54	28
In percentage	27.04%	31.12%	27.55%	14.28%

Maximum number of people gets attracted to the travel companies because of mouth publicity.

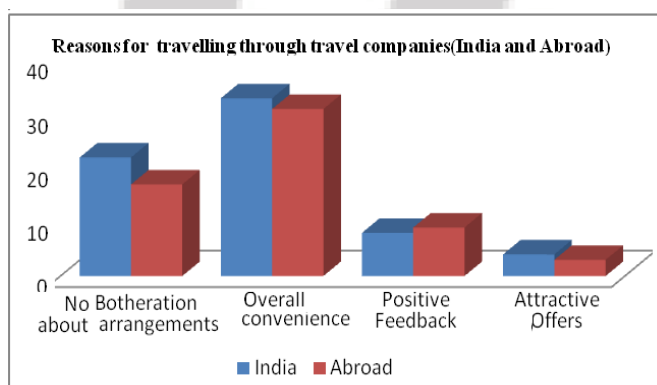
**Reasons for choosing travel company (for those who have travelled through travel Company)**



**Figure 1**

People do travel by travel companies because of the experience they had with the company in the past.

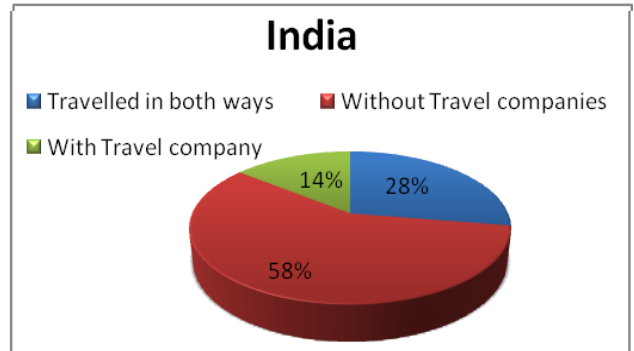
**Reasons for travelling through travel companies (in India and Abroad)**



**Figure 2**

People, who travel only by travel companies, prefer to do so because of the overall convenience of the tour.

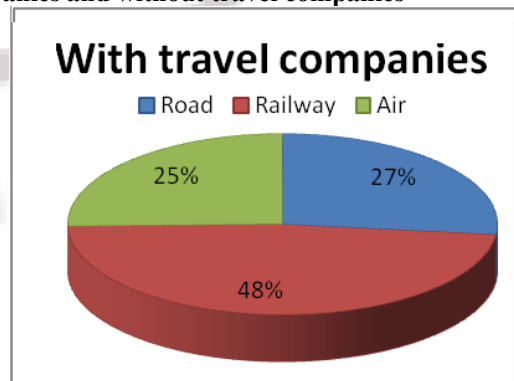
**Way of travelling in India (with travel companies, without travel companies and experienced both ways of travelling)**



**Figure 3**

Percentage of people, who travelled in India, without Travel companies, is 58.

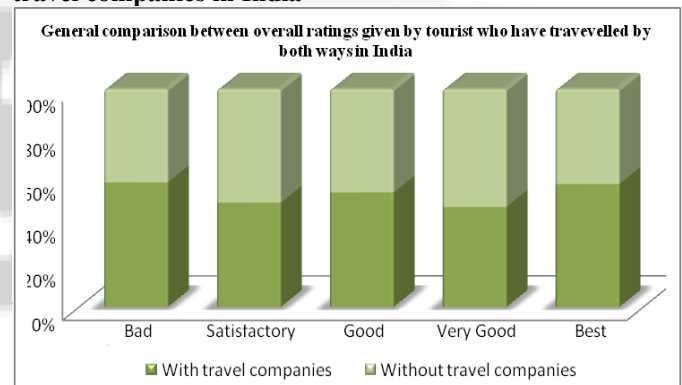
**Preferred mode of transport in India (with travel companies and without travel companies)**



**Figure 4**

Maximum people preferred railway for their tours while going by travel companies.

**General comparison of overall ratings given by people who have travelled without travel companies and with travel companies in India**



**Figure 5**

Not much difference is observed in the overall ratings given by people (who have experienced both ways) for their tour through travel Company and without travel companies.

**Chi – Square test for independence of attributes**

Table value	Calculated value	p- value	Result
21.026	18.56542	0.0995698	Accept Ho

Conclusion: Frequency of travelling is independent of the Annual Income of a person.

table value	calculated value	p – value	Result
7.815	17.70333	0.000506	Reject Ho

Conclusion: The season of travelling and the place of travel chosen by people are associated to each other.

table value	calculated value	p – value	Result
3.841	7.968289	0.004760	Reject Ho

Conclusion: The way of travelling (with travel companies or without travel companies) and view about safety are with travel companies depend on each other.

**Tests for Equality of Two Population Proportion**

For people travelling only with travel companies (India and Abroad);

Ho: Proportion of people who have travelled with travel companies in India = Proportion of people who have travelled with travel companies to Abroad.

P – Value	Z – value	Result
5.540869	3.00676e – 08	Reject Ho

Conclusion: The proportion of people who have travelled with travel companies in India and with travel companies to abroad is not same.

**4. Discussion**

- The number of people travelling without approaching travel companies is greater.
- The percentage of people travelling abroad without approaching travel companies is greater.
- For travelling in India, people prefer local companies more than the well-known companies.
- For Abroad tours, people prefer local companies more than the well known companies.
- Maximum number of people gets attracted to the travel companies because of mouth publicity.
- People do travel by travel companies because of the experience they had with the company in past.
- People, who travel only by travel companies, prefer to do so because of the overall convenience of the tour.
- Not much difference is observed in the overall ratings given by people (who have experienced both ways) for their tour through travel company and without travel companies.

**5. Conclusion**

The percentage of people travelling without approaching travel companies is greater but, people who travel only by travel companies; prefer to do so because of the overall convenience of the tour. Frequency of travelling is independent of the Annual Income of a person. The season of travelling and the place of travel chosen by people associated to each other. The way of travelling (with travel companies or without travel companies) and view about safety are dependent. The proportion of people who have

travelled with travel companies in India and with travel companies to abroad is not same.

**6. Future Scope**

Travelling is such a vast topic with lot of factors that can be considered for studying and exploring the travelling subject statistically. With lot of additional questions that can be added to the questionnaire, various new factors and attributes can be studied which can further be analyzed to understand common man's mindset and the mindset of travel companies .this paper may be just a part of the vast diversity of the topic and there remains a lot more to explore statistically.

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