

International Journal Of Engineering Research ISSN: 2348-4039 & Management Technology

July- 2014 Volume 1, Issue-4

Email: editor@ijermt.org

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A Study on Comparative Analysis of Impact of Price Reduction on Bharti Airtel and Idea Cellular Customers with Special Reference to Eastern Rajasthan, India

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Abstract

The increase in number of players in cellular telephony has raised the expectation level of customers compelling firms to devise various marketing-mix strategies to gain competitive edge. Thus, the main objective of this research is to comparatively study impact of price reduction among customers and employees of Bharti Airtel and Idea Cellular. The exploratory study involves a sample of 250 existent customers and 25 employees for Bharti Airtel and Idea Cellular respectively and the methodology employed is structured questionnaire for customers and employees separately with reference to eastern Rajasthan. By identifying the impact of price reduction on customer decisions the present research will contribute to understanding the significance of pricing strategy. It would also enable marketing managers to identify the impact of price reduction on STD and local calls, internet usage and messaging. The study also attempts to analyze whether customers suggested the subscriber to friends and relatives when prices were lowered. The study will assist service marketers in understanding the relationship between price reduction and customer usage.

Key words: Telecommunication services, Bharti Airtel, Idea Cellular, Eastern Rajasthan, Price reduction.

Introduction

Telecommunication sector in India has contributed significantly to the country's economy with signs of profitability. The key players in telecommunication are Bharti Airtel, Reliance Communication, Vodafone, Idea, BSNL and Tata Communications.

Opportunities in the sector have brought in its own set of challenges as the industry currently is fiercely competitive and aggressively contested by fifteen big and small telecom service providers. With the entry of new players competition in the industry has heightened and share of established players has skid.

The intensified competition in the telecommunication sector has lead consumers to enjoy sumptuousness of choice and higher bargaining power. Telecom companies in current times are becoming customer centric and are striving hard for distinction in the way they deliver services to the customers. Today, the marketer is expected to carefully design the marketing-mix elements with due consideration to price. Thus, the aim of the current research is to determine the influence of price reduction on customer decisions.

International Journal Of Engineering Research & Management Technology ISSN: 2348-4039

Email: editor@ijermt.org July- 2014 Volume 1, Issue-4 www.ijermt.org

Organizations Studied Bhart Airtel Limited

Bharti Airtel Limited headed by Sunil Bharti Mittal is a leading telecommunication service provider with its services and operations in 20 countries across Asia and Africa having headquarters in New Delhi. In India, it provides 2G, 3G and 4G services, fixed line, high speed broadband through DSL, IPTV and DTH. Bharti Airtel is segregated into four strategic business units - Mobile, Telemedia, Enterprise and Digital TV. Airtel is the world's fourth largest mobile telecommunications company by subscribers, with over 275 million subscribers across 20 countries as of July 2013. It is the largest cellular service provider in India, with 192.22 million subscribers as of August 2013.

Overview of Idea

An Aditya Birla Group Company, Idea Cellular held excess revenue of \$4 billion; nearly 15% market share; and over 121 million subscriber base in the year 2013. Idea has been certified ISO 9001:2008 for its customer service delivery platform for all 22 service areas. Idea leads all other telecom operators in India in the MNP (Mobile Number Portability) race, with a net gain of 1,031,380 subscribers as on 31 August 2011. Idea also leads all other competitors in having the most active subscriber base, scoring highly on the Visitor Location Register (VLR) statistics. The services offered by Idea includes Android based 3G Smartphone, dongles etc. with a wide range of 3G applications and high-end data services such as Idea TV, games, social networking etc. at moderate prices.

Objectives of the Study

The main objectives of the present study are as follows:

- To study the effect of price reduction on consumers in case of telecommunication services.
- To comparatively analyze the influence of price reduction on Airtel and Idea Cellular customers.
- To study Airtel and Idea Cellular employee's perception regarding impact of price reduction on customers.

Methodology

The methodology of collecting and interpreting data is as follows:

Hypothesis of the Study

H_{1:} There is no significant impact on usage of telecom services on account of price reduction among Bharti Airtel and Idea Cellular customers.

 $H_{1(a)}$: There is significant impact on usage of telecom services on account of price reduction among Bharti Airtel and Idea Cellular customers.

Research Sample

The present study has been conducted on two Indian telecom giants, Airtel and Idea. The study is carried in four cities of Eastern Rajasthan with varied demographics. A pilot survey was conducted on a sample of 50 respondents drawn from Jaipur city on convenience basis. An online sample size calculator provided by Raosoft.com was used to calculate sample size. A minimum of 385 respondents were recommended by the software for the survey. The final sample size taken for the study was 550. Customers were drawn on the basis of multi-stage sampling while purposive sampling technique was employed for employees.

Sample size – The sample size was distributed as following-

• **Employees**: Total of 50 Employees from sales and marketing department were chosen as respondents from Rajasthan Circle office based in Jaipur City.

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- No. of Employees of Idea Cellular (Rajasthan circle office) 25
- No. of Employees of Bharti Airtel (Rajasthan circle office) 25
- Customers: Total 500 customers from Jaipur, Bharatpur, Alwar and Dausa were chosen as respondents.
 - No. of Customers of Idea Cellular 250
 - No. of customers of Bharti Airtel 250

The research was limited to four districts with 100 respondents from Jaipur and 50 each from Bharatpur, Alwar and Dausa for each Airtel and Idea.

Table 1 District-wise Number of Respondents

Category of Respondents	Name of Unit	No. of Respondents (Bharti Airtel)	No. of Respondents (Idea Cellular)
Employees	Jaipur (Rajasthan Circle office)	25	25
	Jaipur	100	100
	Dausa	50	50
Customers	Alwar	50	50
	Bharatpur	50	50
	Total	275	275

The demographic data for customers were tabulated in Table 2:

Table 2 Demographic Profile of Customers

Demographic	Factors	Airtel (%)	Idea (%)
Variables			
Age	15-40 years	95.2%	92%
	40-60 years	4.8%	8%
Educational	Under Graduates	48.4%	41.2%
Qualification	Graduates	30%	29.2%
	Post Graduates	10.8%	11.2%
	Professional	3.2%	3.2%
	Others	7.6%	15.2%
Occupation	Students	56.4 %	41.2 %
	Service	18%	30%
	Self-employed	25.6%	25.6%
	Housewives		3.2%
Type of connections	Pre-paid	91.6%	98%
	Post-Paid	8.4%	2%
Duration of usage of	Less than 1 month	2.8%	2.4%
services	2-6 months	20.8%	9.6%
	6-12 months	10.4%	7.2%
	More than a year	66%	80.8%

International Journal Of Engineering Research & Management Technology ISSN: 2348-4039

Email: editor@ijermt.org

July- 2014 Volume 1, Issue-4

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Data Collection Tool

A consumer and employee survey was carried out using structured questionnaire designed separately for both. The selected respondents in both cases responded to 12 statements on 5-point Likert Scale (1=Strongly disagree to 5=Strongly agree). The data was collected using face to face interview. On account of price reduction the impact on STD and local calls, internet usage and messaging has been explored. The study also attempted to analyze whether customers suggested the subscriber to friends and relatives when prices were lowered.

Data Analysis

Reliability Analysis has been done to measure internal consistency of variables. Cronbach's alpha has been used to measure internal consistency. For the purpose of testing hypotheses Independent T-Test and Chisquare test have been considered.

The Independent T-Test compared the means between two unrelated groups Airtel and Idea on the same continuous, dependent variables. The SPSS T-Test method allowed the testing of equality of variances (Levene's test) and the *t*-value for both equal- and unequal-variance. It also provided the relevant descriptive statistics.

In the present study the internal consistency of two questionnaires was found to be strong and reliable as the Cronbach's alpha score was close to 1. Table 3 shows reliability score of 0.852 for questionnaire related to customers and Table 4 shows the reliability score of 0.897 for questionnaire related to employees.

Table 3 Reliability Analysis of Questionnaire for Customers

Reliability Statistics	
Cronbach's Alpha	N of Items
0.852	72

Table 4 Reliability Analysis of Questionnaire for Employees

Reliability Statistics	
Cronbach's Alpha	N of Items
0.897	76

Low Cost Strategy

Effect of Price Reduction: Consumer's Response

Null Hypothesis: There is no significant impact on usage of telecom services on account of price reduction among Bharti Airtel and Idea Cellular customers.

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Table 5 Effect of Price Reduction on Airtel and Idea Customers

Group Statistics					
	Organizat	N	Mean	Std.	Std. Error
	ion	14	Mean	Deviation	Mean
The usage remains same	Idea	250	2.79	1.146	.072
The usage remains same	Airtel	250	2.65	1.103	.070
Increased local calls of long	Idea	250	3.56	.977	.062
duration	Airtel	250	3.82	.752	.048
Increased STD calls of long	Idea	250	3.14	.954	.060
duration	Airtel	250	3.20	.917	.058
Ingrassed Massaging	Idea	250	3.38	.880	.056
Increased Messaging	Airtel	250	3.45	.981	.062
Increased Internet uses	Idea	250	3.12	1.119	.071
Increased Internet usage	Airtel	250	3.53	.998	.063
Suggested subscriber to friends	Idea	250	3.93	.905	.057
and relatives	Airtel	250	3.72	.751	.047

Table 6 T-Test for Effect of Price Reduction on Airtel and Idea Customers

Independent San	Independent Samples Test									
Test Equa			evene's est for quality of ariances T-Test for Equality of Means							
			Sig.	Т	df	Sig. (2-taile d)	Mea n Diffe rence	Std. Error Diffe rence	95% Confid Interventhe Differ Low	al of
	Equal variances assumed	.613	.434	1.4 31	49 8	.153	.144	.101	054	.342
The usage remains same	Equal variances not assumed			1.4 31	49 7.2 69	.153	.144	.101	054	.342
Increased local		32.49 5	.000	- 3.3 34	49 8	.001	260	.078	413	107
calls of long duration	Equal variances not assumed			- 3.3 34	46 7.4 87	.001	260	.078	413	107

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Increased STD calls of long duration	Equal variances assumed	.961	.327	- .62 1	49 8	.535	052	.084	216	.112
	Equal variances not assumed			- .62 1	49 7.2 07	.535	052	.084	216	.112
Increased Messaging	Equal variances assumed	2.210	.138	- .81 6	49 8	.415	068	.083	232	.096
	Equal variances not assumed			- .81 6	49 2.2 12	.415	068	.083	232	.096
	Equal variances assumed	3.315	.069	- 4.3 86	49 8	.000	416	.095	602	230
Increased Internet usage	Equal variances not assumed			- 4.3 86	49 1.6 97	.000	416	.095	602	230
Suggested subscriber to	Equal variances assumed	1.939	.164	2.8 51	49 8	.005	.212	.074	.066	.358
subscriber to friends and relatives	Equal variances not assumed			2.8 51	48 1.6 40	.005	.212	.074	.066	.358

Table 6 shows different values of Independent T-Test, Levene's F-test for equality of variances and significance probability for effect of price reduction on the usage of services at Airtel and Idea.

Description

The Levene's Significance value for increased local calls of long duration |p| = .000 i.e. |p| < .05. This means that the variability in the two conditions is not the same. The Sig. (2- Tailed) value for increased local calls of long duration |p| = .001 i.e. |p| < .05 and is statistically significant.

The Levene's Significance value for usage remains same |p=.434|, Increased STD calls of long duration |p=.327|, Increased Messaging |p=.138|, Increased Internet usage |p=.069|, and Suggested subscriber to friends and relatives |p=.164| i.e. |p>.05|. This explicates that the variability in two conditions is about the same. The Sig (2-Tailed) value for Increased Internet usage |p=.000| and Suggested subscriber to friends and relatives |p=.005| i.e. |p<.05| and is statistically significant. The Sig. (2-Tailed) value for the usage remains same |p=.153|, Increased STD calls of long duration |p=.535|, and Increased Messaging |p=.415| i.e. |p>.05| which is statistically not significant.

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Interpretation

The mean from Group Statistics box (Table 5) divulged that when price of products and service were reduced at Airtel and Idea, significant changes were observed. Customers of Airtel made more local calls of long duration and increased usage of internet as compared to Idea customers. Though effect of price reduction was more in case of Airtel, the extent of suggesting brand Idea to Friends & relatives on account of price reduction was high at Idea.

Since $\mu 1 \neq \mu 2$ for some variables of low-pricing strategy, null hypothesis is rejected and alternate hypothesis is accepted. Here it can be concluded that there was significant effect of price reduction on the usage of product and services.

Effect of Price Reduction: Employee's Response

 Table 7 Effect of Price Reduction on Idea and Airtel customers (Employees Perspective)

Group Statistics		<u>, </u>	,		
	Organizatio n	N	Mean	Std. Deviation	Std. Error Mean
Increased Product	Idea	25	3.92	.759	.152
Usage	Airtel	25	3.84	.624	.125
	Idea	25	4.20	.816	.163
Increased Market share	Airtel	25	3.64	.700	.140
Increased Consumer	Idea	25	4.16	.746	.149
base	Airtel	25	4.00	.577	.115
	Idea	25	4.16	.898	.180
Increased Revenues	Airtel	25	3.44	.821	.164

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Table 8 T-Test for Effect of Price Reduction on Idea and Airtel customers (Employees Perspective)

Independe	nt Samples Te							· (-		F	
	•	Levene	T-Test for Equality of Means								
		F	Sig.	t	df	Sig. (2- tailed	Mean Differ ence	Std. Error Differ ence	95% Confid Intervathe Difference Lowe	ıl of	
Increased Product	Equal variances assumed	.554	.460	.40 7	48	.686	.080	.197	315	.475	
Usage	Equal variances not assumed			.40 7	46. 274	.686	.080	.197	316	.476	
Increased Market	Equal variances assumed	.158	.693	2.6 03	48	.012	.560	.215	.128	.992	
share	Equal variances not assumed			2.6 03	46. 906	.012	.560	.215	.127	.993	
Increased	Equal variances assumed	2.454	.124	.84 8	48	.401	.160	.189	219	.539	
Consumer base	Equal variances not assumed			.84 8	45. 157	.401	.160	.189	220	.540	
Increased	Equal variances assumed	.107	.745	2.9 59	48	.005	.720	.243	.231	1.209	
Revenues	Equal variances not assumed			2.9 59	47. 614	.005	.720	.243	.231	1.209	

Table 8 shows different values of Independent T-Test, Levene's F-test for equality of variances and significance probability for effect of price reduction on the usage of services at Airtel and Idea.

Description

The Levene's Significance value for Increased Product Usage |p|=.460, Increased Market share |p|=.693, Increased Consumer base |p|=.124, Increased Revenues |p|=.745 i.e. |p|>.05. This explicates that the variability in two conditions is about the same. The Sig (2-Tailed) value for Increased Market share |p|=.012 and Increased Revenues |p|=.005 i.e. |p|<.05 which is statistically significant. The Sig (2-Tailed) value for Increased Product Usage |p|=.686 and Increased Consumer base |p|=.401 i.e. |p|>.05 which is statistically not significant.

International Journal Of Engineering Research & Management Technology ISSN: 2348-4039

Email: editor@ijermt.org July- 2014 Volume 1, Issue-4 www.ijermt.org

Interpretation

The mean from Group Statistics box (Table 7) revealed a significant increase in market share and revenues for Idea and Airtel. This implies that there was significant effect of price reduction among both Airtel and Idea customers. According to employees of Idea there was an increase in number of new customers when price was reduced. Employees at Idea also verified increase in usage of telecommunication services among existing customers on account of price reduction.

Therefore, it can be concluded that employees of both telecommunication players agreed that there is significant difference in the usage of services when price was reduced.

Findings, Conclusions and Policy Recommendations

From the findings of this research, it can be inferred that telecommunication companies need to focus on cost leadership pricing strategy while devising marketing strategies. Based on the survey results it can be concluded that price reduction had a significant impact on both Airtel and Idea customers. The study unveiled that when the price of product and services were reduced, customers used telecom services more than before, which in turn increased revenue. The study further revealed that customers referred Airtel and Idea to their friends and relatives which increased market share and consumer base.

This finding can assist marketers in devising effective pricing strategies for their services and reinforces the fact that price plays a significant role in customers decision making.

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