Comparative Analysis of Rural Consumers' Preferences for Mobile Service Providers

Dr. Sujit Kumar Dubey *

Rajeev Kumar Malik **

Due to cut throat competition in mobile service providers, customers are on a receiving end. Rural Customers too have become smarter and they also consider different factors for choosing mobile service providers. Considering the heterogeneity of rural market and that too in mobile services industry, it becomes extremely important for marketers to understand and analyze the taste and preferences of rural customers. This paper tries to identify the major factors that rural customers of western & eastern Uttar Pradesh consider while choosing a mobile service provider. The Research design for present study is exploratory cum descriptive. Primary data are collected through a structured, non-disguised questionnaire, based on Likert type scale. Exploratory factor analysis is used to find out the important factors for mobile service subscription decision. Data are collected from 200 Rural consumers (100 from each circle) using nonprobability convenience sampling. Responses were asked on agreement continuum scale ranging from Most Important to Least Important. Statistical techniques like exploratory factor analysis & 't' test were used to analyze the data. It was found that service charges & tariff plans and network quality are most important factors for choosing a mobile service provider. The better understanding of rural consumers' psyche can help in devising relevant targeted marketing strategies and also ensure greater level of satisfaction for the rural consumers. The results may not be generalized due to limited sample size and sample not being the true representative of the population due to convenience sampling. It was found that operating cost and tariff offered by the service providers is a prime consideration for selecting a mobile operator. Simultaneously, rural consumers also give high weight to the quality of network because each and every rural area is being dominated by specific service provider. The paper provides insights into rural consumers' preferences for mobile service providers in Uttar Pradesh (East & West circle) and an attempt to analyze the reasons for the differences in both markets.

Keywords: Mobile Service Providers, Bottom of Pyramid (BOP), Rural customers, Network Quality, Tariff Plan

Introduction

Indian mobile market is second largest market in the world in terms of mobile connections. According to a research by global telecom body "GSM Association" there are around 906 million mobile connections in India which corresponds to about 71 percent of total population. But in India on an average people have 2.2 SIMs per person and in terms of unique number of subscribers, there are about 380 million actual users comprising 26 percent of total population. India has seen rapid increase in the number of mobile service providers which caused the tariff rates to hit an all-time low. This allowed the players to target the low income population thereby increasing the market share. In the last ten years, the mobile revolution has truly changed the socio-economic landscape of India and played a pivotal role in the growth and development of the economy. According to Cellular Operator Association of India (COAI), India ranks between the top ten telecom network in the world and the second largest in Asia. India is also one of the fastest growing markets in mobile communications. Growth in India's mobile telephone sector has been nothing short of spectacular in the past few years, aided by higher subscriber volumes, lower tariffs and falling handset prices. India is home to a number of global mobile operators working with local companies and mobile market has consistently experienced very high annual growth rates with the continuous decline in tariff. India is adding over seven million mobile subscribers per month. Though mobile phones have become indispensable in the developed world, they are even more useful in the developing world, where the availability of other forms of communication-roads, postal systems or fixed-line phonesis often limited. With this, marketing of telecom services, particularly mobile services, has been a major challenge to the service providers. The environment has become very competitive in the presence of many service providers especially in the context of introduction of mobile number portability. In the last decade or so, the mobile penetration has been unparalleled in the country due to untapped rural India being the 'fortune at the bottom of the pyramid'. Traditionally, targeting to the BOP was not very profitable preposition especially for large organization, that's

^{*}Professor, Faculty of Management Studies, Banaras Hindu University, Varanasi, India

^{**}Research Scholar, Faculty of Management Studies, Banaras Hindu University, Varanasi, India.

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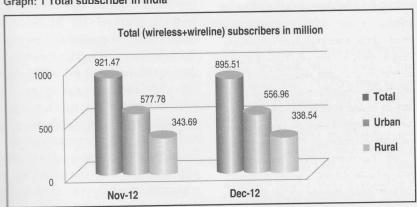
ible at's this market was being serviced by unorganized ector with low quality goods and services, and many a times at unreasonable prices. Similar kind of mactice was followed by the financial service moviders by charging usurious rate of interest and fighly deficient services to the rural However, there is paradigm shift in the make a ready to series of rural consumers. Now, they are ready to both time and money to make them recent with changing environment. Recent have indicated that if the content has direct mercial gains, member in rural areas are willing to pay for manufacture and services. Today's rural children and will grow up in an environment where they mare 'information access' to education mortunities, exam results, career counseling, job programities, government schemes and services, and legal advice services, worldwide news information, land records, mandi prices,

member forecasts, bank loans, livelihood options

Current Scenario of Telecommunication in India

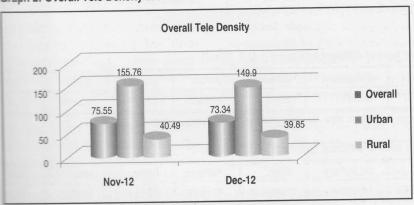
The number of telephone subscribers in India has decreased to 895.51 Million at the end of December, 2012 from 921.47 Million at the end of November 2012, thereby registering a monthly growth rate of -2.82%. The share of urban subscribers has declined to 62.20% from 62.70% whereas share of Rural Subscribers has increased to 37.80% in the month of December 2012. With this, the overall Tele density in India decreased to 73.34 at the end of December, 2012 from 75.55 of the previous month. This decline in subscription base is mainly due to cancellation of inactive SIMs by different service providers. Subscription in urban areas decreased from 577.78 million in November. 2012 to 556.96 million at the end of December, 2012. Subscription in rural areas decreased from 343.69 million to 338.54 million during the same period. The monthly growth rate of Urban and Rural Subscription is -3.60 % and -1.50 % respectively. The

Graph: 1 Total subscriber in India



Source: Press Release No. 08/2013, TRAI, New Delhi, Released on 7th February 2013

Graph 2: Overall Tele Density in India



Source: Press Release No. 08/2013, TRAI, New Delhi, Released on 7th February 2013

overall urban Tele density has decreased from 155.76 to 149.90 and rural Tele density decreased from 40.49 to 39.85.

Current Scenario of Telecommunication in U.P. (West Circle)

In Indian mobile market, the level of competition and market dynamics are different in Western Uttar Pradesh from all over India. This study tries to identify and analyze the factors responsible for rural consumers' preferences towards Mobile service providers in eastern & western Uttar Pradesh. Let's have a look on the current scenario of telecommunication in those circles. The study took into account 8 major players in Mobile services that are operating in that circle. Table 1 provides a glimpse about the wireless subscriber base of mobile players in western U.P. circle as on 31stDecember 2012. It's clearly inferred from the table below that, top 2 players have neck to neck competition and enjoys around 40% share of the pie though new entrantUninoris growing at a faster pace.

Current Scenario of Telecommunication in U.P. (East Circle)

The level of competition and market dynamics is also significantly different in Eastern Uttar Pradesh compared to western U.P. circle though it has somewhat similarity with all India level. Let's have a look on the current scenario of telecommunication in this circle. Table 2 provides a glimpse about the wireless subscriber base of mobile players in decreasing order in this circle as on 31st December 2012. It's clearly depicted from the table that top 4 players show the similarity with the trend of all India market shares of service providers. These players comprise of almost 69 % market share and rest is being enjoyed by remaining players. Idea,

which is 'Numero Uno' in market share in western circle, stands at 6th position in eastern circle. One major reason for this difference is the late entry in eastern circle but its gaining momentum in growth in this circle also.

Review of Literature

Satish M. (2011) in his study opined that factors influencing the switching behavior of customers of Mobile services in Chennai, were grouped into 4 categories namely customer service, service problems, usage cost and others. The results from the study reveal that call rates plays the most important role in switching the service provider followed by network coverage, value added service and customer care while advertisement consider to be least important. It is found that there is a relation between switching the service provider and above mentioned factors.

RajkumarPaulrajan and HarishRajkumar (2011) in their study, "To examine and understand the consumers' perception choice in selecting cellular mobile telecommunication service providers" opined that consumers' perception is widely varied in accordance with the communication quality, call service, facilities, price, customer care and service provider's quality. Hence, they concluded that price has significant positive impact on consumer perception choice in selecting telecommunication service provider. Product quality from the marketer's perspective is associated with communication, price, feature, function, or performance of a product. Price plays a significant role in the purchase decision of the telecommunications sector. However, study reveals that product quality and availability has a significant impact on consumer perception choice in selecting mobile telecommunication service provider.

Table 1: Subscriber base of different operators in U.P. (West)

Circle	Idea	Vodaphone	Reliance	Airtel	Uninor	BSNL	Tata	Aircel
U.P.(W)	10189727	8999073	6647314	6556052	5001245	4928465	4026419	1509375

Source: Press Release No. No. 08/2013, TRAI, New Delhi, Released on 7th February 2013

Table 2: Subscriber base of different operators in U.P. (East)

Circle	Airtel	Vodaphone	BSNL	Reliance	Uninor	Idea	Tata	Aircel
U.P.(E)	14940643	14526236	10295513	9648465	7045540	6978230	4141889	3589906

Source: Press Release No. No. 08/2013, TRAI, New Delhi, Released on 7th February 2013

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JayantaBanarjee (2011) conducted his study rural areas of West Bengal found that mobiles used by rural customers in numerous ways preference wise most important use differs different categories. Majority of rural stomers view mobile as a device for keeping in with their family/ friends/ relatives. They accept the importance of mobile for their stress needs.

SabbirRahmanet. al. (2010) in their study undertaken to examine and understand the "sumers' behavioral perception choice in electing mobile telecommunication service moviders in Malaysia, concluded that consumers' perception is widely varied in accordance with the quality, price, availability of product, and motion, etc. Network quality is one of the more ant factors of overall service quality. Product availability and promotion are also semificantly important factors to influence the market. Corporate was not found to be an important factor customers' perception towards an because customers' are more sensitive in mage rather than corporate image.

SRao&SaiSangeet C. (2007) opined that the of pyramid market is a huge opportunity to be tapped. The challenge is to identify the uniqueness of these markets and strategies to suit their needs. The challenge is to identify the uniqueness of these markets and developing these local markets and developing the interpretation of the

the factors influencing the rural methodice of service providers prevailing the rural methodice of service providers prevailing the phone markets, concluded that rural methodice with latest technology to make mobile sets and service provider. The mobile sets and service provider. The mobile sets and service provider of include 1357 respondents who have mobile phones. While making the choice mobile service provider, they stressed

facilities provided, effectiveness, dexterity, relative advantage and influential person. The rural consumer perceived that service providers more capable which provide more quality facilities at low price. It must be taken into account that they wanted to make the optimum utilization of their hard-earned money.

Pakola et al. (2004) surveyed 397 Finnish consumer-purchasing motives on one hand and factors affecting operator choice on the other. The result indicates that while price and properties were the most influential factors affecting the purchase of a new mobile phone whereas price, audibility and friend's operators were regarded as the most important in the choice of the mobile phone operator.

Kesti and Ristola (2003) investigated consumer intentions to use different mobile services. To this end mobile services had been tested in a real, interactive situation by voluntary test users. This paper also considered the needs people see themselves having in the mobile commerce context in the future. The field trial's focus was on testing mobile services and technology in an actual end user environment. The main findings of the study indicated that the perceptions users got from testing mobile services affect their intention to use those kinds or similar services in the future. The results also indicated that there are significant differences while examining two kinds of groups; low-interest users and high-interest users. The test users regarded the guidance services as the most important one, followed by mobile ads and communication services. Furthermore, there were statistically significant differences between different types of users and their evaluation of the three services groups.

Liu (2002) examined factors affecting the brand decision in the mobile phone industry in Asia. It was concluded that the choice of cellular phone is characterized by two distinct attitudes to brands: attitude towards the mobile phone brand on one hand and attitude towards the network on the other. While price and regularity of service were found to dominate choices between network providers, choices between mobile phone brands were affected by new features such as memory capacity and SMS-options, more than size. The trends will actually be not towards smaller phones but towards phones with better capability and large screens.

Riquelme (2001) conducted an experiment with 94 customers to identify the amount of self-knowledge consumers have while choosing mobile phone brand. The study was built upon six key attributes (telephone features, connection fee, access cost, mobile-to-mobile phone rates, call rates and free calls) related to mobile phone purchasing. The research shows that consumer with prior experience about a product can predict their choices relatively well but consumers tended to overestimate the importance of features, call rates and free calls and underestimate the importance of a monthly access fee, mobile-to mobile rates and connection fees.

Research Methodology

Objectives of the Study:

- To find out the most important factors for selecting a Mobile Service Provider by rural customers in eastern & western Uttar Pradesh circle.
- To analyze the differences in factors responsible for selection of a Mobile Service Provider by rural customers in eastern & western Uttar Pradesh circle.

Hypotheses

In order to attain the first and main objective of the study, a statistical approach'exploratory factor analysis' was applied. In order to attain the second objective these null and alternative hypotheses were made and tested statistically.

- \mathbf{H}_0 : There are no significant differences in factors in both circles.
- H₁: There are significant differences in factors in both circles.

Area of the Study

The study has been carried out in selected villages of Moradabad &Sambhal districts from western U.P. and some villages of Varanasi &Chandauli districts from eastern U.P. The districts were selected on the basis of ease of collection of data as those districts are adjacent in their respective circles.

Research Design

The study is an exploratory as well as descriptive in nature. Both primary and secondary data were collected for the study. The secondary

data was collected from magazines, journals, books and internet. Primary data were collected through a structured questionnaire using survey method.

Sample Size

A total of 200 respondents (100 from each circle) of literate category among rural masses from different villages in aforesaid districts were chosen for the study using non-probabilistic convenience sampling method. The respondents being the adopters of mobile phones are selected by this technique as it is appropriate for this type of studies (Malhotra, 2008). In convenience sampling, respondents (who have possession of mobile phones) are selected because they happen to be in the right place at the right time and were ready to participate in the study. 12 out of 100 questionnaires were either not returned or found to be not usable for the study purpose from western Uttar Pradesh and 6 were not usable from eastern Uttar Pradesh, thus making the sample size 88 and 94 from the respective circles.

Data Collection:

The primary data were collected through questionnaire and partially through direct interviews. A structured questionnaire containing multiple choice and Likert type scale questions was designed for the purpose in English and then converted to Hindi so that rural customers can easily comprehend the above questionnaire and give genuine responses. Though literate respondents were chosen for the ease of data collection even then administrators of the schedule were well versed with regional languages and consumers psyche of respective areas.

Sample Profile

Sampling was done by non-probabilistic convenience sampling technique so the distribution of the respondents on demographic variables that came out by default in both regions is depicted in the table 3. This can be easily inferred from the table 3 that sample collected from the population has a good representation of all groups of society. The demographic characteristics of the respondents depict that the majority of users belong to 15-30 age group, followed by 31-45 age group. This reveals that the adopters of mobile services are relatively young. It is further revealed that students comprised the maximum proportion followed by service class (Govt. & Private job) and then farmers

small businessmen. It also reveals that mobile more is beneficial for all classes of the rural people. Table 3 also shows that most of the respondents and and a post graduates, followed by higher and metric respectively. This signifies education level plays an important role in the and expansion of mobile services in rural see college going youths are early adopters of sechnologies. Though, more samples units are and in the age group of 15-30 years but this of rural society has their dominance in decisions and target audience for mostly Service Providers advertisements. Around The respondents fall in the income bracket of 5000 monthly this makes the sample a good Bottom of Pyramid".

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Data Analysis & Interpretation

Factor Analysis

The datacollected through questionnaires were recorded and analyzed by SPSS 18.0. Exploratory factor analysis is used in order to identify underlying constructs and investigate relationships among key survey interval-scaled questions regarding the factors affecting the choice of mobile phone and mobile service provider from 182 (88 & 94 respectively for both circles) rural respondents. To test the suitability of the data for factor analysis, the following steps have been taken:

 Kaiser-Meyer-Olkin (KMO) Measure of Sampling Adequacy (MSA) for individual variables is studied from the diagonal of partial

Table 3: Demographic Profile of Respondents

Varia	bles	Number (West)	Number (East)	
Age	15-30 Years	67	58	
	31-45 Years	10	21	
	46-60 Years	11	15	
	Total	88	94	
Gender	Male	55	63	
	Female	33	31	
	Total	88	94	
Educational Qualification	Up to 10th standard	13	26	
	Intermediate	14	31	
	Graduate	30	23	
	Post Graduate	31	17	
	Total	88	94	
Marital Status	Married	32	43	
	Single	56	51	
	Total	88	94	
Monthly Income	Up to 5000	44	52	
	5001-10000	22	19	
	10001-15000	10	14	
	15000 & above	12	09	
	Total	88	94	
Occupation	Farming	7	17	
	Business	11	08	
	Govt. Job	4	16	
	Pvt. Job	14	12	
	Student	38	32	
	Housewife	14	09	
	Total	88	94	

- correlation matrix. It is found to be sufficiently high for all the variables. (Hair et al. 2007).
- ii. To test the sampling adequacy, Kaiser-Meyer-Olkin Measure of sampling adequacy is computed which is found to be 0.615 in western circle and 0.616 in eastern circle for choice of mobile service provider. Both are greater than 0.5 and it is indicated that the sample is good enough for factor analysis (Hair et al. 2007).
- iii. The overall significance of correlation matrices is tested with Bartlett Test of Sphericity for choice of mobile service provider (approximately chi-square = 185.014 significant at 0.000 for western circle and approximately chi-square = 207.772 significant at 0.000 for eastern circle). These figures provided support

for the validity of the factor analysis of the data set.

Principal Component Analysis

The total variance explained by Principal Component Analysis (PCA) is shown in table 4& table 5 for western and eastern circle respectively. It shows that there was significant drop in the Eigen values from the 5th component onwards. Hence, the first four components were considered, which together explain 67.437% & 68.313% of the total variance for western and eastern circle respectively. Components were selected on the basis of latent roots and minimum components and maximum information about variance rule was also taken into account.

Table 4: Total Variance Explained (Western Circle)

		Initial Eigen value	S	Extraction Sums of Squared Loadings				
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %		
1	2.734	27.343	27.343	2.734	27.343	27.343		
2	1.713	17.128	44.471	1.713	17.128	44.471		
3	1.289	12.892	57.362	1.289	12.892	57.362		
4	1.007	10.074	67.437	1.007	10.074	67.437		
5	.823	8.235	75.671					
6	.638	6.384	82.055					
7	.583	5.829	87.884					
8	.492	4.921	92.805					
9	.472	4.719	97.525			in and		
10	.248	2.475	100.000					

Extraction Method: Principal Component Analysis

Table 5: Total Variance Explained (Eastern Circle)

		Initial Eigen value	S	Extraction Sums of Squared Loadings				
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %		
1	2.964	29.636	29.636	2.964	29.636	29.636		
2	1.559	15.585	45.221	1.559	15.585	45.221		
3	1.187	11.865	57.086	1.187	11.865	57.086		
4	1.124	11.227	68.313	1.124	11.227	68.313		
5	0.880	8.799	77.112					
6	0.656	6.564	83.676					
7	0.592	5.915	89.591					
8	0.482	4.818	94.409					
9	0.326	3.259	97.668		de en el con			
10	0.233	2.332	100.000		The state			

Extraction Method: Principal Component Analysis

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incipal ble 4& vely. It Eigen ice, the which total tively. latent imum into After extracting the Eigen values, varimax varion was applied for the selected variables. The actor loading of the 10 variables was then observed, at the variables were clubbed into 4 factors (Table Table 7). In interpreting factors, a decision must made regarding which factor loadings are worth sidering. A factor loading represents the relation between an original variable and its variables with higher loadings are more important and have metalliced more important and have resent a factor. The label is intuitively developed factor analyst based on its appropriateness representing theunderlying dimension to a callar factor (Hair 2007).

Rotated Component Matrix (Western Circle)

Mitributes		Comp	onent	
	1	2	3	4
Targe/call or charge/	.846	.021	048	.046
Initial Subscription Cost	538	.451	.400	.087
Coverage	.434	.513	.368	052
Voice Clarity	.200	.774	.262	172
Added Services	.236	.085	571	057
sharges for Services	.801	.078	.103	.050
customer's complaint/	.091	.079	528	.164
of plans as	.618	065	.181	.493
-coefisements	.457	.092	.231	521
Tampurate reputation	.007	.105	.108	552

Principal Component Analysis.

Warmax with Kaiser Normalization.

The second in 7 iterations

The Protected Component Matrix (Eastern Circle)

Attitutes		Comp	onent	
	1	2	3	4
The darge call or charge/	.754	.309	212	.161
Turing Subscription Cost	.641	.122	.271	.360
Commercially Coverage	.373	.711	.058	.208
This Carty	.028	.779	.165	043
Militer Attried Services	.041	.029	.768	.047
Manthy charges for Services	.691	.084	.245	343
The complaint of the co	.057	.034	.621	.496
Managements	.747	171	036	.222
abertiener's	.114	013	.109	.874
Committee reputation	139	299	.095	.839

Principal Component Analysis.

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amened in 7 iterations

Table 8: Factor affecting Rural Customers decision for Mobile Service Provider (for both circles)

Factor	Variables			
Factor1 (Service charge & plan)	Tariff (charge/call or charge/ min or sec)			
	Initial Subscription Cost			
	Monthly charges for Services			
	Availability of plans as per requirements			
Factor 2 (Network quality)	Connectivity/Coverage			
	Voice Clarity			
Factor 3 (Service quality)	Value Added Services			
	Response to customer's complaint/Suggestion			
Factor 4 (Brand image)	Advertisements			
	Corporate reputation			

Hence, all the underlined variables were examined for a particular factor and placed greater emphasis on those variables with higher loadings to assign a name or label to a factor that accurately reflected the variables loading on that factor. All the factors have been given appropriate names on the basis of variables represented in each case. The names of factors, the statement, the label and factor loading have been summarized in Tables 6 & 7. Though same factors were found important for both regions but factors loadings of components on each factor were different. These factors were named as per their constituents of attributes. The four factors, those were deduced from the factor analysis of the data, in their order of importance are service charge and plan, network quality, service quality and brand image. Customers in rural are setting too are brand conscious but not as much as they seek value for money.

In order to test the null hypothesis made for second objective, independent sample t-test was applied on factors extracted for both the circles. It's clearly shown by the table above that since all significance values are more than .05 we don't have enough statistical evidence to reject the null hypothesis. It means there are no significant differences in factors responsible for both the regions.

Findings

The study using factor analysis to identify the important factors for choosing a particular mobile

Table 9: Independent sample t-test for differences in factors in both circles

	Factors	Levene's test		t-test for equality of means			
		F	Sig.	t	df	Sig. (2-tailed)	
Factor 1	Equal variances assumed	.016	.900	.001	180	.999	
	Equal variances not assumed			.001	178.894	.999	
Factor 2	Equal variances assumed	.000	.995	.038	180	.970	
	Equal variances not assumed			.038	179.134	.970	
Factor 3	Equal variances assumed	.011	.916	024	180	.981	
	Equal variances not assumed			024	179.375	.981	
Factor 4	Equal variances assumed	.013	.909	.107	180	.915	
	Equal variances not assumed			.107	179.328	.915	

service provider among rural customers revealed the following facts:

- It was found that rural customers give maximum importance to service charge & plans. This goes with the notion that they seek value for money.
- Network quality emerged as the second most important factor for choosing a service provider. There is lack of infrastructure required for better connectivity in rural areas.
- The service quality and brand image were also important for rural customers but not to extent as aforesaid two factors viz. Service Charge & Plan, Network Quality.
- Finally, the study clearly depicts that there are no significant differences in factors responsible for both the regions.

Conclusion

India is facing a major turn-around in the rural market as the markets are now exposed to all the business opportunities whether it is consumer durables, education or any other services of which Telecom constitutes the most significant part. This service has not only shortened the geographical landscape but also has played a major role in connecting the rural population with the Urban. The Mobile Service Providers have to seek various measures in the form of lucrative services to capture the opportunities in the hinterlands. It can be clearly concluded from the study that operating cost and tariff offered by the service providers is a prime consideration for selecting a mobile operator. Simultaneously, rural consumers also give high weightage to the quality of network because each

and every rural area is being dominated by specific service provider. Though, the selection of service provider is mainly either by the recommendations of family & friends or matching the services with a family member working in the urban area.

Bibliography

- Beri G.C. (2009), Marketing Research, 4th edition, Tata McGraw Hill, New Delhi.
- Govind Narayan & Priyanka Jain (2011), "Consumers' preferences for Mobile Service Provider: An empirical study in Agra", The IUP journal of Marketing Management, Volume X, No. 3, 2011
- Hair et. al. (2007) "Multivariate Data Analysis", 6th edition, Pearson Education India ltd., New Delhi
- Jayanta Banerjee (2011), "Mobile Telecommunication: Role and Prospects in the Development of Rural India", Viewpoint, Volume 2, No. 1, January-June 2011.
- Kesti, M. & A. Ristola(2003), "Tracking consumer Intention to use Mobile Services: Empirical Evidence from a field trial in Finland. Accessed at http://www.rotuaari.net/downloads/publication-10.pdf on 25th January 2012.
- Lalit Mohan Kathuria and Manish Jain, "Factors Influencing the Selection of a Mobile Phone Service Provider: An Empirical Study among Rural Consumers", Accessed on http://www.asiapacific.edu/Vol%20V%20No.%204%20 Oct%20%20Dec%202009/L.%20M.%20Kathuria.html on 10th January 2012.
- Liu, C.M. (2002) "The effects of promotional activities on brand decision in the cellular telephone industry". The Journal of Product and Brand Management, 11(1). Pp. 42-51.
- Malhotra, N.K. (2005), Marketing Research: An Applied Orientation, P.568, Pearson Education India Ltd., New Delhi.
- "Mobile penetration in India only 26 (not 74) percent, says GSMA", Press Trust of India, December 13, 2012. Accessed at http://gadgets.ndtv.com/telecom/news/mobile-penetration-in-india-only-26-not-74-percent-says-gsma-304756 on 15 February 2013.
- Nargundkar, R. (2002). Marketing Research: Text and Cases. Tata McGraw Hill Publishing Co., New Delhi.

- Proceedings of 32nd EMAC Conference, Track: New Technologies and E-marketing. Accessed at www.oasis.oulu.fi/publications/jem-05-hk.pdf. > 22 June 2012.
- marPaulrajan& Harish Rajkumar (2011), "Service Quality and Customers Preference of Cellular Mobile Service Providers", Journal of Technology, Management & Manage
- H. (2001), "Do consumers know what they want?" Journal of Consumer Marketing 18(5). Pp. 437-448.
- Rahmanet. al. (2010), "Exploring influencing factors for the selection of mobile phone service providers: A structural

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- equation modeling (SEM) approach on Malaysian consumers", African Journal of Business Management, Vol.4 (13), pp. 2885-2898, 4 October, 2010
- Satish M. et. al. (2011), "A Study on Consumer Switching Behavior in Cellular Service Provider: A Study with reference to Chennai", Far East Journal of Psychology and Business, Vol. 2, No 2, February 2011.
- U.S. Rao&SaiSangeet C. (2007), "Strategies for succeeding at the Bottom of Pyramid (BOP) market in Telecom Services Sector", Paper presented at "Conference on Global Competition & Competitiveness of Indian Corporate at IIM Kojhikode, 2007.