

Moderating role of perceived brand image in service supply chain of telecommunication sector

Rol moderador de la imagen de marca percibida en la cadena de suministro de servicios del sector de telecomunicaciones

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Received: 28/06/2019 • Approved: 02/10/2019 • Published 14/10/2019

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ABSTRACT:

As the service industry is growing in faster rate, proper service supply chain management has become a key issue before the producers in understanding customers' perception. The present paper is focussed on the cause-effect links among service quality, perceived brand image, customer satisfaction and customer loyalty, particularly in Indian telecommunication sector. This study was customer survey based and data was collected through a well tested questionnaire. Survey result showed that, customer satisfaction plays mediating role and perceived brand image moderates the relationship between service quality and customer loyalty significantly.

Keywords: Service Quality, Brand Image, Customer Satisfaction, Customer Loyalty

RESUMEN:

A medida que la industria de servicios está creciendo a un ritmo más rápido, la gestión adecuada de la cadena de suministro se ha convertido en un tema clave para que los productores comprendan la percepción de los clientes. El presente documento se centra en los vínculos causa-efecto entre la calidad del servicio, la imagen percibida de la marca, la satisfacción del cliente y la lealtad del cliente, particularmente en el sector de telecomunicaciones de la India. Este estudio se basó en una encuesta de clientes y los datos se recopilaron a través de un cuestionario bien probado. El resultado de la encuesta mostró que, la satisfacción del cliente juega un papel mediador y la imagen percibida de la marca modera la relación entre la calidad del servicio y la lealtad del cliente de manera significativa.

Palabras clave: calidad del servicio, imagen de marca, satisfacción del cliente, lealtad del cliente

1. Introduction

In today's market scenario service sector is bigger contributor towards economic growth in any country. Service sector provide largest GDP to the developing countries. The world

economy is shifted from manufacturing to services. In this competitive era every organization focused on increasing their customer value. Due to the growth of the market, customer demand also increased for lower price, faster delivery, improved quality products and many product options. For this, supply chain management plays an important role to minimize the cost for providing service to the customers.

Service supply chain in any service delivery system can be viewed as a chain or network of activities, which involves number of participants. Just like supply chain in manufacturing, in services also we can see that all the participants are related to each other. The structure of supply chain can vary from a simple serial supply chain to a broad network of supply chain entities. To achieve success, each player's contribution is relevant in service supply chain system leading to gaining competitive advantage in any business.

With increase competition in Telecommunication sector, customers want better quality product in lower prices. Therefore the companies need to manage their supply chain effectively in order to provide the best service. To be a successful company, a satisfied customer is an important factor. In this globalized world, companies face difficulties to serve those customers spread across the globe properly and also retain them. Supply chain helps to build a stronger relation between the customer and the organization.

Service and product quality have a vital and encouraging impact on brand leadership which is a factor of brand equity (Hanyasha and Ghani). According to Keller (2003) global brands inspire the image of product quality status among their customers to increase their leadership position in their target markets. These strategies would enhance the value of the brand in the long run and provide competitive advantage. The leading brands are very powerful influencer, they attract customers through focusing on product quality and service quality dimensions (Beverland et al., 2007). For sustainable competitive advantage companies should give more emphasis on improving their product quality and service quality to fulfill the needs and satisfaction of their customer.

With intense competition between various telecom service providers, customer satisfaction is important for survival in the market. For creating wealth, Quality is generally regarded as a key factor which influences customer satisfaction. Hence, the telecommunication companies have to be strategically positioned to provide quality services to satisfy customers for their existence.

Telecom service providers need to constantly keep an eye on the dynamic market, their competition, and especially their customers. Customers of today are more demanding, expect higher levels of service, and crave new products. In this context, the present study aims at investigating the role of perceived brand image among customers of tele-services for achieving higher degree of loyalty through satisfaction generated from quality service delivery.

2. Literature review

For an organizational success quantity of customers is not important rather out of it how many of them are their regular purchasers are more important. This emphasizes the major role, customer loyalty plays in different firms. Commitment of customers in long run also brings profit for the companies. For developing, maintaining and protecting market share brand loyalty is vital. Loyalty can be measured in various ways like brand purchase in a sequence (Churchill, 1942), percentage that purchase provide to the firm (Cunningham, 1956).

Customer Loyalty can also be stated as positive word of mouth spread by customers that help in more purchase of the products or services. In this present era each and every industry try to present better services and quality of product as well as some additional features in their product which give additional weight in the market.

In telecommunication sector brand loyalty is receiving the higher attention. According to Nawaz and Usman, service quality, satisfaction, trust and commitment are the important antecedents of Brand loyalty. Out of all these factors quality of services is deemed as the main component of brand loyalty in mobile phone network market. From this study

authors revealed that there exists an positive relationship of service quality and satisfaction to brand loyalty indirectly.

According to Chakraborty & Mazumdar (2014), perceived service quality of after sale service is not good in India. Responsibility, reliability and empathy play an important role for it. They also found that even the customer were satisfied with a brand might not choose the same brand again for the next purchase. Customer satisfaction is a reflection of a person's opinion about a product perceived performance as compare to their expectation about it (Kotler, 2009). Broadly customer's satisfaction is their feeling of enjoyment or disappointment generates from a good or service perceived performance. Customers feel dissatisfaction if product performs less than their expectation. In other way if the product performs more than their expectation they feel very happy or delight. Now a day's creating happy and loyal customer is the main focus of every organisation because they are beneficial to the organisation in a long run. Customer centric firm uses satisfaction of client as an important marketing tool to exist in the market (Kotler, Keller 2012). Both researchers and practitioners shows interest for the subject service quality (Henderson, 2013).

According to Dolarsan (2014), customer satisfaction and perceived value both directly impact the loyalty. Customer satisfaction found to be vital for repurchase intention. A stronger association exists between loyalty and customer satisfaction for females & youth. All the companies now days try to deliver high quality services to sustain in the market. Customer satisfaction leads to the organization's profitability also. The satisfied customers later on involved in repeat purchase, the spread positive word of mouth and become loyal customer. Customer satisfaction act as a basic factor of customer loyalty which improves purchase repetition and helps in more positive word of mouth spread (Reichheld and Sasser, 1990).

Customer satisfaction acts as mediator between perceived service quality dimensions and customer loyalty. Perceived service quality act as precursors of customer satisfaction and having no effect on customer behavior directly (Turk and Avcilar, 2009). Various studies identified a strong connection exist between customer satisfaction and customer's repurchase intentions. Customer satisfaction is also an important factor of customer loyalty. If customer satisfaction affect customer loyalty strongly it leads to customer repurchase intention and they also recommend the product to other customers (Mittal and Kamakura, 2001; Zeithaml et al., 1996; Reichheld and Sasser, 1990).

Present view of the customers about a brand is known as brand image, it shows their overall impression for a brand. If organisation posses a good brand image it helps the organisation to have a good position in the market. This intangible valuable asset, is very difficult to copy, and facilitates superior performance for survival (Roberts and Dowling, 2002). Brand image is a customer brand perception in their memory and reflects their total impression. Brand image is regularly considered as a vital factor while evaluating service (Bitner, 1991). Consumer's outlooks for service quality are controlled by brand image. Previous researchers also exposed that brand image has an encouraging impact on service quality (Wu et al., 2011, Bloemer et al., 1998). It has been proved that a positive brand image helps an organization to gain advantage over competitors and thus build reputation. For this reason brand management has become a hot topic of research among practitioners and academicians equally (Porte and Claycomb 1997). By the help of a good brand image, , customer satisfaction and loyalty among customers increase which also enhance their behavior to purchase more (Lai et. al 2009, Da Silva & Alwi 2008 and Bloomer et. al 1998)

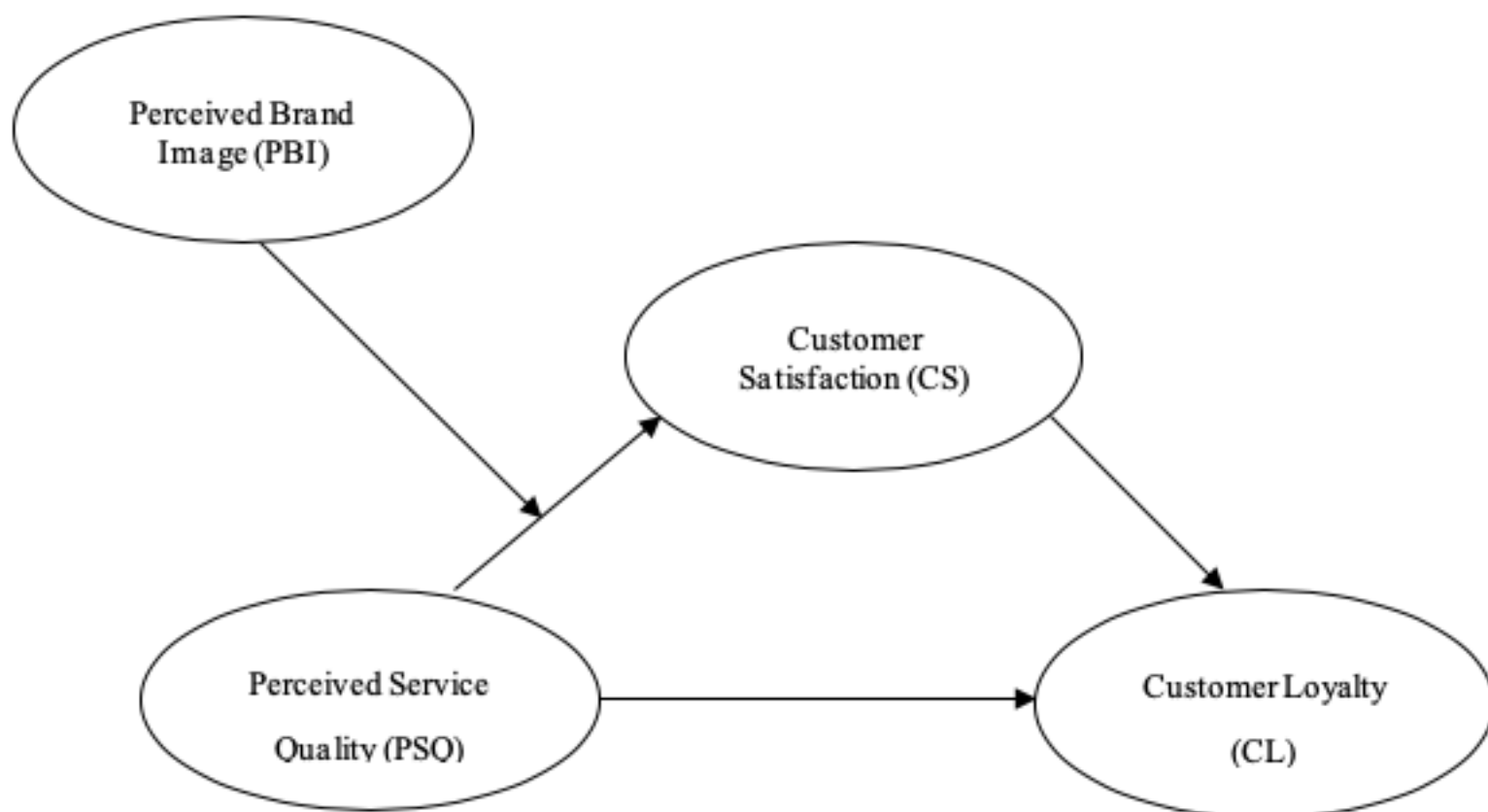
Based on the past research reviews, following hypotheses were formulated.

H1: Customer satisfaction (CS) mediates the relationship between perceived service quality (PSQ) and customer loyalty (CL) in outbound tele-service supply chain.

H2: Perceived brand image (PBI) moderates the mediation effect of Customer satisfaction (CS) on the relationship between perceived service quality (PSQ) and customer loyalty (CL) in tele-services.

Figure 1 represents the conceptual model considered in current research.

Figure 1
Conceptual Model



3. Research methods and design

The present study was more focussed on exploratory type of design with an intention to get new insights on moderating and mediating roles of brand image and customer satisfaction creating loyalty out of service quality in telecom sector respectively. From 13 telecom districts in Odisha state of India 214 customers were selected randomly those who were using mobile phone service frequently. Each of them were approached personally and asked to give their responses in structured questionnaire survey. The questionnaire was designed considering four major constructs of study, for which most of the research items were borrowed from, Hsieh A. T. & Li C. K. (2007); Chiu S. K. K. (2010); Xuan Zhang and Yuanguan Feng (2009); Parasuraman, A., Zeithaml, V. and Berry, L.L. (1988); Gi-Du, K. & James, J. (2004); Simon Gyasi Nimako et al (2012). All the responses were collected in 7-point Likert scale format.

Before collecting the final responses, pilot survey was made to test the reliability and validity of survey instrument (Table 1 and 2).

Table 1
Scale Reliability (Cronbach's alpha score)

Variables	PSQ	CS	CL	PBI
Score	0.81	0.84	0.83	0.85

Data reliability was ascertained using Cronbach's alpha score observation, and in the present study this score was found to be above 0.80 for all study constructs.

Table 2
Measurement Scale test indices

Variables	CMIN/df	GFI	CFI	RMSEA	AVE
PSQ	2.09	0.983	0.983	0.072	0.83
CS	2.017	0.986	0.991	0.006	0.82

CL	1.84	0.973	0.981	0.063	0.80
PBI	1.39	0.985	0.989	0.067	0.84

Again, Confirmatory Factor Analysis (CFA) was made to see the validity of data collected and the outcome is presented in table 2. It was observed that all the test of fit indices were within the acceptable range according to Hair et al., 2006. Final data analysis and interpretation were made by applying structural equation modeling approach using Amos 17 software package.

4. Results and discussion

The main objective of this study was to investigate the impact of perceived service quality on customer loyalty in Indian telecommunication service. However, as per the past studies, it is hypothesized that customer satisfaction may play a major role in mediating the above mentioned causal relationship. Again, perceived brand image might have the moderating effect on customer satisfaction. Hence, to study this complicated cause-effect relationships involving four major latent variables, structural equation models (SEM) were created and investigated thoroughly.

Figure 2
Structural Equation Model showing the direct relationship between PSQ and CL

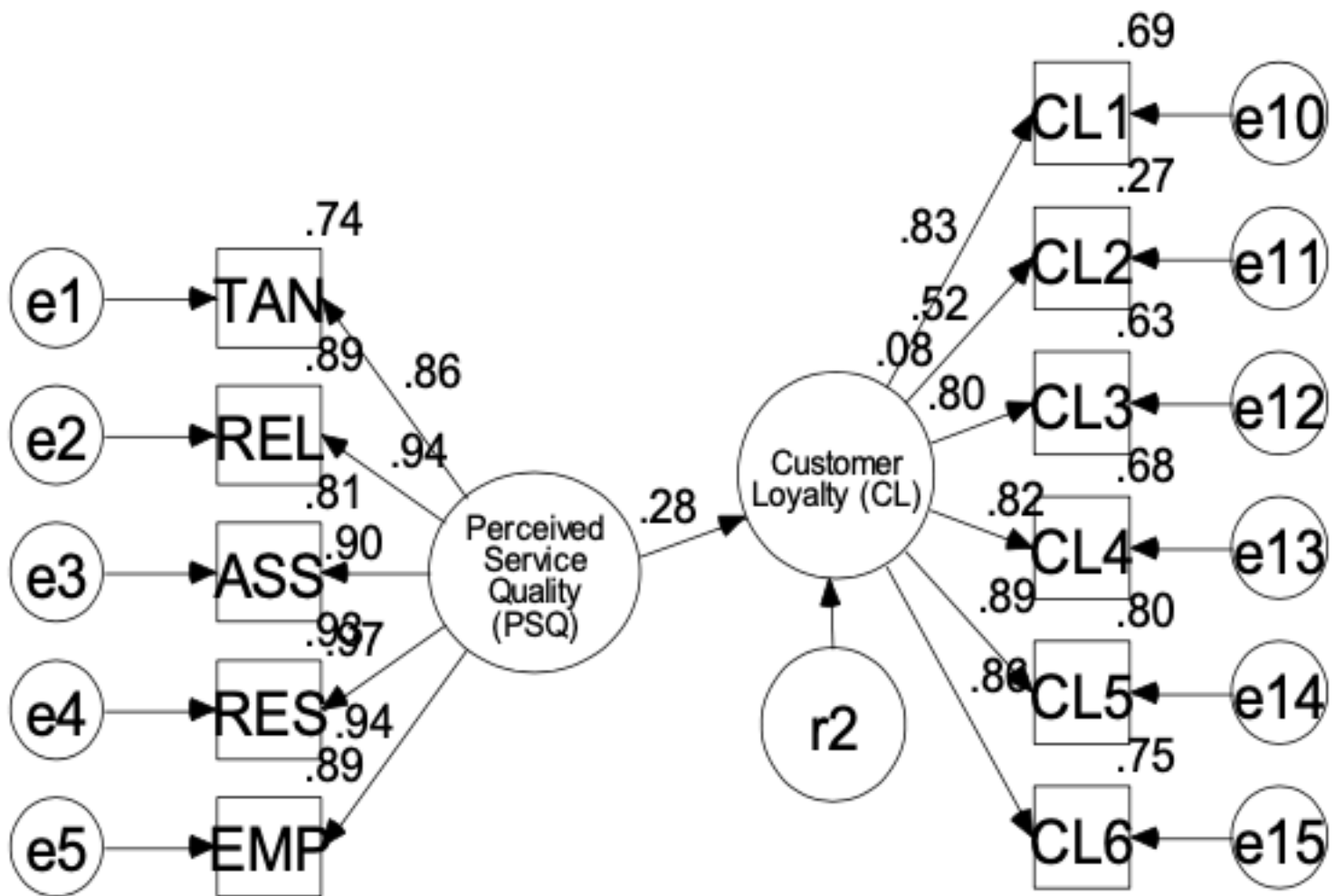


Figure 2 represents the path diagram of SEM, showing the relationship between PSQ and CL. PSQ was having 5 well accepted observed variables, namely, tangibility, reliability, assurance, responsiveness, and empathy. Similarly, CL was having 6 observed variables as per the survey instrument.

Table 3
SEM results showing the direct relationship

Hypothesis	Path	β	B	S.E.	C.R.	P	CMIN/df	GFI	CFI	RMSEA
H1	PSQ → CL	0.280	0.300	0.076	3.955	0.000	2.956	0.907	0.963	0.077

No.	Path			β	B	S.E.	C.R.	p	CMIN/df	GFI	CFI	RMSEA
1	PSQ	→	CS	0.207	0.208	0.123	1.697	0.090	2.892	0.856	0.943	0.076
2	BI X CS	→	CL	0.106	0.011	0.012	0.885	0.376				
3	PSQ	→	CL	0.024	0.026	0.049	0.524	0.600				
4	CS	→	CL	0.870	0.931	0.079	11.773	0.000				

In total, it was therefore concluded that, in Indian telecom sector, perceived service quality of customers plays a significant role in creating loyalty through customer satisfaction, and this link might be disturbed if brand image comes to the picture.

5. Managerial implications

As per the current study, it was concluded that the telecom service supply chain in India should be totally customer focussed for sustainable growth. What the customers expect, same should be served, to make them more satisfied, which ultimately creates them more loyal towards a particular service provider. But when brand image comes to the mind of customers, it suppresses the level of satisfaction and customer satisfaction does not have significant contribution in loyalty generation. Hence, service providers must focus sufficiently in making a proper balance among brand equity, service quality, and customer expectation fulfillment. Indian telecom service operation can then be well managed if more efforts will be given on quality of service and customer orientation approach rather than more brand image production.

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Revista ESPACIOS. ISSN 0798 1015
Vol. 40 (Nº 35) Year 2019

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