DOI: 10.18843/ijms/v5i3(8)/15

DOIURL: http://dx.doi.org/10.18843/ijms/v5i3(8)/15

A Study on the Service Quality Aspects of Mobile Phone Service Providers in Kerala

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ABSTRACT

This study aims to carry out a comparison between the public sector & private sector mobile phone service providers in Kerala. The study also attempt to find out relationship between the various regions of Kerala (North, South, Central) and the overall satisfaction of subscribers This study makes use of the model SERVPERF. This model appraises the perception of quality services based on the customers" perception of actual performance.

Hypothesis testing is carried out with the help of statistical tools to identify and establish the results. The results of hypothesis testing reveal the following

- (a) There exist significant differences in the perceived service quality from private sector service providers in comparison with public sector service providers.
- (b) There exist significant differences in the perceived service quality by customers of north, central and south districts of the state of Kerala.

The major conclusion of the study states that private sector service providers are far ahead in their race for market share, and they outclass the public sector service providers in every aspect of quality of service. Considering the small state Kerela which is high in population density, the preferences of customers vary across the different regions viz north, central and south. Hence service providers need to zoom in to these region preferences expected by customers so as to satisfy them and retain them in the long run.

Recommendations for future research would be the value added services, retention strategies etc adopted by the major service providers in the state of Kerala.

Keywords: Service Quality, SERVPERF, Reliability, Assurance, Tangibility, Empathy, Responsiveness.

INTRODUCTION:

With increasing competition in telecom service, there is a need for higher level of consumer satisfaction, affordable prices and improved quality of service. The hyper competitive nature of the telecom industry has created a need to understand customers, to keep them and to model effective ways to market new services.

Major telecom service providers are striving to understand the customers' telecommunication patterns and hence they are finding it very difficult to retain the customers for longer periods.

In a service sector which is highly dominated by technological advancement and tough competition from different players there is an urgent need for mobile phone service providers to focus their marketing strategies on customer satisfaction and long term retention.

OBJECTIVES OF THE STUDY

- 1. To carryout a comparison between private sector and public sector service providers based on the SERVPERF dimensions.
- 2. To study the relationship between the various regions of Kerala (North, South, Central) based on the SERVPERF dimensions.

LITERATURE REVIEW:

Quality of Service:

Service quality refers to an attitude formed by a long-term overall evaluation of a firm's performance. A successful relationship between businesses and a customer is centered

on mutually satisfying goals. These goals tend to evolve with time, technology and financial and political environment. (Armstrong & Kotler, 1996) described customer satisfaction as an emotion resulting from the evaluation of the balance between the services described and provided against the felt needs that motivated the purchase decision. (Bitner & Zeithaml, 2003) identified that satisfaction is the customers' evaluation of the fulfillment of their requirements and expectations from a product or service. As said by (Boselie et al. 2002) satisfaction is a positive, affective state resulting from the review of all aspects of an organisation's working relationship with another.

Better Value for Money (could include service after sales, unique features of the product etc.)

Value of economy has constantly been a core reflection in a decision making action by the management. Value for money can be defined as customers' perception of a service

in terms of its economy, efficiency and effectiveness in relation to the cost of the service. Thus, value of money for a service delineates that if an organisation achieves maximum benefit from the goods and services it attains compared to the resources available to it. It looks into the cost of goods and services as well as the quality, price, usage of resources, suitability, fitness for purpose, and convenience to judge whether they form good value. (Kotler & Keller, 2006) explained that customer value could be articulated as a ratio of the perception of benefits to the total cost of ownership. Thus for any business to enhance the value of its services it has to improve ways of perceived benefits or reduce the total cost of ownership.

As per (Susan & Derek Nash, 2002), exceeding customer expectations and 'going the extra mile can leave a memorable impression that the customer talks about time and time again." This approach of delivering customer service helps to gain and retain customers and stay ahead of the competition

Customer Loyalty and Customer Retention:

Word of Mouth Recruits New Customers:

The business needs a good understanding of the evolving needs in order to sustain and develop business, while at the same time providing a good quality service to its consumers at an acceptable price delivering good value. Such change is also essential to recruit new customers and retain market position in that business. (Zineldin M, 2006) has added that one of the conditions of true customer loyalty is total satisfaction.

(Reichheld F, 2001) discussed the advantages of customer loyalty to the service provider. Loyalty brings continuous profit, reduces marketing cost, increases per-customer revenue growth through greater interaction and service utilization and increases referrals which is a marketing tool that carries the advantage of the trust projected in the service provided, which is difficult to achieve in other forms of advertising strategies. There is a direct link between customer satisfaction, customer loyalty and customer retention. The interest in understanding the dynamics of customer satisfaction comes from its relationship to business promotion and profitability that comes from retention of that customer and customer driven promotion of the business through recommendations and recruitment of new clients.

Servqual Model Quantifies the Service Quality:

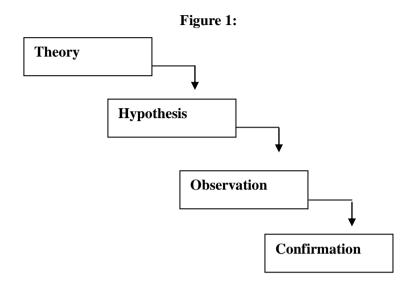
Excellence in service is yet another factor that influences customer loyalty. The study conducted by (Boulding et al. 1993); (Cronin & Taylor, 1992) explored the relationship between quality of service and customer loyalty. Service quality is mainly determined by the customers' viewpoint of the service offering they received and their evaluation as to whether it matches or exceeds their expectations.

Zeithmal's SERVQUAL method can be used to measure the service quality. This measures the difference customers' expectations about service quality and perceived quality.

RESEARCH METHODOLOGY:

Descriptive research was adopted for this research work.

Research Approach – Deductive Approach.



In this study, existing empirical theory is selected, applied and tested to measure the customer's perceived service quality for mobile services and its impact on customer satisfaction and to provide recommendation in the context of mobile service providers in Kerala circle. Hence the study is deductive in nature

Models Used:

SERVPERF and SERVQUAL models which are applicable for mobile phone service quality measurement along with new dimensions such us systematisation and social dimensions.

Questionnaire Development:

The questionnaire consists of three sections- Section A includes the demographic details of the respondents. Section B includes questions related to service quality dimensions. Section C includes data usage pattern of the respondents.

In Section B of the questionnaire Likert Scale with rating of 1 to 7 was used. A scale value of 7=Strongly Agree, 1=Strongly Disagree and 3=Uncertain. The customer satisfaction among mobile phone users of Kerala is measured in terms of service quality dimensions – Tangibility, Reliability, Responsiveness, Empathy, Assurance and additionally data service usage pattern as an add on dimension.

Sampling:

A random sample of mobile phone users spread across the state of Kerala was used to collect the data. Further, these respondents were of 18 years of age and above, who had been using the services for at least six months and who have visited a mobile store at least once. The data collected would throw light on the customer perception and their actual experience they get regarding the services from the mobile phone service provider

Sample size:

Sample size determined for the study = 835

Statistical Tools used:

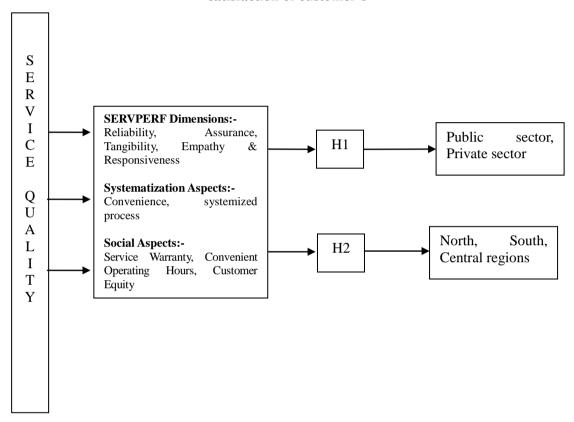
- Z test to carry out a comparison between private sector and public sector service providers based on the SERVPERF dimensions.
- ANOVA to study the relationship between the various regions of Kerala (North, South, Central) and the overall satisfaction of subscribers.

Hypothesis:

- H1: There is no significant difference between public sector and private sector service providers based on the SERVPERF dimensions
- H2: There is no significant different between the various regions of Kerala based on the SERVPERF dimensions.

Conceptual Framework of variables:

Figure 2: The theoretical framework of correlation between the dimension of SERVPERF and the satisfaction of customer's



Independent Variables:

These variables are the one which is tested, changed by the researcher. In this study service quality aspects of different mobile phone service provider are tested.

Dependent Variables:

These are variables which are observed and measured. These are variables which might be affected by the change in independent variable. In this study the overall customer satisfaction of the customers are measured on a likert scale of 7 in which score 1 being the 'lowest' and 7 being the 'highest' level of satisfaction. Factors identified for measuring service quality aspects of service providers

Table 1: Factors identified for measuring service quality aspects of service providers

Dimensions	Items
Tangibility Aspects	 Customer service counter was well equipped with modern facilities. The office furniture, its physical layout etc are comfortable for customer interactions Customer service staff was well dressed Visually appealing Promotional brochure was present at the customer service counter
Reliability Aspects	 The services are delivered as promised The customer service staff has a sympathetic and reassuring approach to your problem The customer service staff is dependable

Dimensions	Items
	The customer service staff records all transaction details accurately
Responsiveness Aspects	 The customer service staff told me the exact time when the service will be performed I receive prompt service from the service provider staff. Customer service staff is always willing to help the customers
Assurance Aspects	 Customer service staff does not appear to be too busy in responding customer requests I trust the customer service staff I feel safe when consulting business related service with customer service staff The customer service staff is polite Customer service staff seems to have received adequate supports from the service provider to do their job well
Empathy Aspects	 Customer service staff gives me individual attention Customer service staff is clear about my requirements Customer service staff is willing to clarify all my doubts regarding the service The operating hours of the service provider is convenient for most of the customers
Systematization Aspects	 Having processes for decreasing time of services Having the processes that do functions without error Having processes for offering services without more bureaucracy Promoting technological ability for offering effective services for customers
Social Aspect	 Offering services with warranty Convenience of geographical situation for easy accessibility by public Treat all customers equally Commitment and courtesy of employees

Data Analysis:

A) Comparison between Private and Public sector mobile phone service providers.

To analyse if there is a significant difference in the customer satisfaction provided by Private and Public Service providers; z-test for difference of means is carried out. The study has 582 Private and 253 Public service providers accessed by the customers.

Table 2: Cross Tabulation of Private Sector & Public Sector service providers

6. Service Provider? * PublicpvtCrosstabulation									
Count									
	Publi	ic Pvt	Total						
	Private Public		Total						
Airtel	122	0	122						
BSNL	0	253	253						
Docomo	31	0	31						
Idea	170	0	170						
Jio	45	0	45						
Reliance	28	0	28						
Vodafone	186	0	186						
Total	582	253	835						

The means test requires an initial check of equality of variance of the pairs of variables. This is carried out by Levene's test which has null hypothesis that every pair has variances which are not significantly different. The result of Levene's test suggests that the variance for seven variables (Modern outlook of customer service division, Comfortable office Furniture, Well dressed staff, Visually appealing brochure, Staff records all transaction details accurately, Advanced technology used for providing services, . Services received were backed with warranty and easily accessible office location) are equal while for the remaining variables the variances differ significantly.

Table 3: T-Test for Comparison between Private and Public Service providers

		D 111			Std.	Т		Remark/
		Publicpvt	N	Mean	Deviation	statistic	p-value	conclusion
	9a. Modern outlook of	Public	253	4.35	1.488			
	customer service	Private	582	4.49	1.363	-1.306	.192	Accept Ho
	division							
Tangibility	9b. Comfortable office	Public	253	4.35	1.376	889	.375	Accept Ho
Aspects	Furniture	Private	582	4.44	1.301			F
1	9c. Well dressed staff	Public	253	5.25	1.476	4.790	0.000**	Reject H ₀
	0.1 37' 11 1'	Private	582	4.68	1.631	<i>5.66</i> 0		3
	9d. Visually appealing	Public	253	4.17	1.089	-5.668	.000**	Reject H ₀
	brochure	Private Public	582	4.63	1.094			
	10a. Service delivered as promised	Private	253 582	4.18	1.684	-5.400	0.000**	Reject H ₀
	10b. Sympathetic	Public	253	4.82	1.301 1.259	2.148		
	approach of staff	Private	582	4.36	1.581	2.146	0.032*	Reject H ₀
Reliability	approach of starr	Public	253	4.02	1.197	-4.939		
Aspect	10c. Dependable staff	Private	582	4.52	1.640	-4.737	0.000**	Reject H ₀
	10d. Staff records all	Public	253	4.44	1.304			
	transaction details					-2.590	0.010*	Reject H ₀
	accurately	Private	582	4.75	1.663		0.010	110,000110
	11a. Staff informed me	Public	253	4.48	1.385	-1.896		
	the exact time of service	Private	582	4.70	1.838	1.070	0.058	Accept Ho
Responsive	11b. Received prompt	Public	253	4.34	1.289	-1.563	0.118	Reject H ₀
ness	service	Private	582	4.51	1.758	-1.303	0.116	Keject n ₀
Aspect	11c. Helping mentality	Public	253	4.40	1.255	-2.471	0.014**	Reject H ₀
	of the staff	Private	582	4.66	1.689	-2.471	0.014	Reject II ₀
	11d. Staff does not	Public	253	4.33	1.228	2.309	0.021**	Reject H ₀
	appear to be too busy	Private	582	4.10	1.528		0.021	Reject II ₀
	12a. I trust the staff	Public	253	4.34	.997	193	0.847	Accept Ho
		Private	582	4.35	1.663		0.0.7	11000pt 110
	12b. I feel safe about	Public	253	3.98	1.197	2.505		
Assurance	my business data while consulting the	Private	582	4.35	1.474	-3.785	0.000**	Reject H ₀
Aspect	staff 12c. Staff is polite to	Public	253	4.32	1.399	-2.166		
	me	Private	582	4.56	1.657	-2.100	0.031*	Reject H ₀
		Public	253	4.26	1.284			
	12d. Well trained staff	Private	582	4.49	1.679	-2.078	0.038*	Reject H ₀
	13a. I receive	Public	253	4.45	1.156			
	individual attention from staff	Private	582	4.36	1.718	.921	0.357	Accept Ho
	13b. Staff is clear	Public	253	4.44	1.024	-2.100		
Empathy	about my requirement	Private	582	4.63	1.591	2.100	0.036*	Reject H ₀
Aspect	13c. Staff is willing to	Public	253	4.38	1.119	-2.450		
	clear my doubts	Private	582	4.61	1.591		0.015*	Reject H ₀
	13d. Operating hours	Public	253	4.16	1.549	5.5 00		
	is convenient for customers	Private	582	4.87	1.770	-5.788	0.000**	Reject H ₀
Systematiz	14a. Simple and	Public	253	3.87	1.155	-4.243	0.000***	D.: AT
ation	efficient process exist	Private	582	4.29	1.611	1	0.000**	Reject H ₀
Aspects	14b. Error free process	Public	253	3.88	1.519	-6.142	0.000**	Reject H ₀

		Publicpvt	N	Mean	Std. Deviation	T statistic	p-value	Remark/ conclusion
	exist	Private	582	4.61	1.724			
	14c. Received service	Public	253	3.94	1.465	-4.632	0.000**	Reject H ₀
	without bureaucracy	Private	582	4.47	1.702		0.000	Keject H ₀
	14d. Advanced	Public	253	4.51	1.495	-2.431		
	technology used for providing services	Private	582	4.79	1.592	-2.431	0.015*	Reject H ₀
	15a. Services received	Public	253	3.70	1.207	-3.417		
	were backed with warranty	Private	582	4.05	1.404		0.001**	Reject H ₀
	15b. Easily accessible	Public	253	4.12	1.362	-5.752	0.000**	Doingt II
Social	office location	Private	582	4.76	1.521	-3.732	0.000	Reject H ₀
Aspect	15c. All customers	Public	253	4.25	1.346	-3.738	0.000**	Daigat II
	were treated equally	Private	582	4.65	1.590	-3.738	0.000**	Reject H ₀
	15d. Courteous and	Public	253	4.32	1.344			
	committed service staff	Private	582	4.45	1.691	-1.148	0.251	Accept Ho

^{*&}amp; ** indicates significance at 5 and 1% respectively.

Null Hypothesis:

There is no significant difference in the customer satisfaction provided by Private and Public Service providers

To identify relationship between the various regions of Kerala (North, South, Central) based on the SERVPERF dimensions:

Analysis of Variance (ANOVA) test is carried out to find if there is a significant difference in customer satisfaction between the three parts in Kerala- North, central and South. There are 285 customers from Central, 216 from North and 334 from South Kerala.

Cross Tabulation of Customers region wise - Refer Table 4

ANOVA test has the null hypothesis that there is no significant difference in customer satisfaction between the three parts in Kerala- North, Central and South.

ANOVA test - Refer Table 5

The result of ANOVA proves that there is significant difference between the three regions with regard to Customer satisfaction. Hence Post-Hoc analysis due to Bonferonni is carried out which will analyze pair wise which are the means that differ significantly. Here, pair wise difference of means is tested for its significance.

Null hypothesis: There is no significant difference in means between any of the pairs of variables

Post-Hoc Analysis for Multiple Comparisons using Bonferroni test

Refer Table 6

FINDINGS AND DISCUSSION:

Comparison between Private and Public sector mobile phone service providers:

Tangibility Aspects: The results provided in the table indicates that 'Modern outlook of customer service division' and 'Comfortable office Furniture' are two variables that do not have significant difference between Private and Public service providers. Meanwhile the variables 'Well dressed staff' and 'Visually appealing brochure' has significant difference between Private and Public service providers.

Reliability Aspect: As per the above results the variables – 'Service delivered as promised', 'Sympathetic approach of staff', 'Dependable staff', 'Staff records all transaction details accurately' have significant difference between Private and Public service providers.

Responsiveness Aspect: According to the results provided in the above table, 'Staff informed me the exact time of service' is the only variable that do not have significant difference between Private and Public service providers. Meanwhile 'Received prompt service', 'Helping mentality of the staff', 'Staff does not appear to be too busy' are the variables which have significant difference between Private and Public service providers.

Assurance Aspect: As per the above results the variables – 'I trust the staff' is the only variable that do not have significant difference between Private and Public service providers. Meanwhile 'I feel safe about my

business data while consulting the staff', 'Staff is polite to me', 'Well trained staff' busy' are the variables which have significant difference between Private and Public service providers.

Empathy Aspect: The above results indicate that 'I receive individual attention from staff' is the only variable that does not have significant difference between Private and Public service providers. Meanwhile 'Staff is clear about my requirement',

'Staff is willing to clear my doubts' and 'Operating hours is convenient for customers' are the variables which have significant difference between Private and Public service providers.

Systematization Aspects: As per the above results the variables – 'Simple and efficient process', 'Error free process', 'service without bureaucracy', 'Advanced technology used' are the variables which have significant difference between Private and Public service providers.

Social Aspect: As per the above results the variables- 'Services received were backed with warranty', 'Easily accessible office location', 'All customers were treated equally' have significant difference between Private and Public service providers.

But for variable 'Courteous and committed service staff' there is no significant difference between Private and Public service providers.

To identify relationship between the various regions of Kerala (North, South, Central) based on the SERVPERF dimensions:

The results of ANOVA test failed the null hypothesis. It reveals that the customers' preferences and tastes vary across the different regions of Kerala. Kerala has a reputation of being, communally, one of the most religiously diverse and cosmopolitan states in India.

CONCLUSION:

The results of the research work indicate that private sector service providers are embracing the technological advancement in telecommunications much faster to stay ahead in their race for market share, and they outclass the public sector service providers in every aspect of quality of service. Kerala is a unique state which is high in literacy rate and population density. The preferences of customers are also unique which vary across the different regions viz north, central and south. Hence service providers need to zoom in to these region preferences expected by customers so as to satisfy them and retain them in the long run.

ACKNOWLEDGEMENTS:

The authors of this study wish to acknowledge the support provided by members of SCMS School of Technology and Management, University Institute of Technology, Kerala University.

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TABLES:

Table 4: ANNOVA test to identify relationship between North, Central and South regions of Kerala in terms of customer satisfaction.

6. Service Provider * Location								
Count								
		Loc	cation		Total			
		Central	North Ke	South Ke	Total			
Airtel	0	58	24	40	122			
BSNL	0	60	71	122	253			
Docomo	0	18	8	5	31			
Idea	0	63	46	61	170			
Jio	0	10	6	29	45			
Reliance	0	6	0	22	28			
Vodafone	0	70	61	55	186			
Total	4	285	216	334	839			

Table 5: ANNOVA Test

Tangebility	F	Sig.	Remark
9a. Modern outlook of customer service division	18.759	.000	Reject H ₀
9b. Comfortable office Furniture	6.661	.001	Reject H ₀
9c. Well dressed staff	15.223	.000	Reject H ₀
9d. Visually appealing brocheure	21.588	.000	Reject H ₀
Reliability Aspect			
10a. Service delivered as promised	13.999	.000	Reject H ₀
10b. Sympathetic approach of staff	15.436	.000	Reject H ₀
10c. Dependable staff	8.865	.000	Reject H ₀
10d. Staff records all transaction details accurately	17.070	.000	Reject H ₀
11a. Staff informed me the exact time of service	11.134	.000	Reject H ₀
11b. Received prompt service	15.032	.000	Reject H ₀
11c. Helping mentality of the staff	4.030	.018	Reject H ₀
11d. Staff does not appear to be too busy	13.535	.000	Reject H ₀
12a. I trust the staff	3.611	.027	Reject H ₀
12b. I feel safe about my business data while consulting the staff	13.484	.000	Reject H ₀
12c. Staff is polite to me	24.074	.000	Reject H ₀
12d. Well trained staff	22.493	.000	Reject H ₀
13a. I receive individual attention from staff	20.871	.000	Reject H ₀
13b. Staff is clear about my requirement	32.577	.000	Reject H ₀
13c. Staff is willing to clear my doubts	31.332	.000	Reject H ₀
13d. Operating hours is convenient for customers	33.335	.000	Reject H ₀
14a. Simple and efficient process exist	24.487	.000	Reject H ₀
14b. Error free process exist	24.742	.000	Reject H ₀
14c. Received service without bureaucracy	20.398	.000	Reject H ₀
14d. Advanced technology used for providing services	22.999	.000	Reject H ₀
15a. Services received were backed with warranty	14.895	.000	Reject H ₀
15b. Easily accessible office location	45.863	.000	Reject H ₀
15c. All customers were treated equally	26.756	.000	Reject H ₀
15d. Courteous and committed service staff	27.717	.000	Reject H ₀

Table 6: Post-Hoc Analysis

	(I)]	Mean Difference	Std.		
Dependent Variable	LocNumber	(J) LocNumber	(I-J)	Error	Sig.	
		Central Kerala	756*	.124	.000	Reject Ho
	North Kerala	South Kerala	487*	.120	.000	Reject Ho
9a. Modern outlook of customer service division	Central	North Kerala	.756*	.124	.000	Reject Ho
	Kerala	South Kerala	.269*	.111	.046	
		North Kerala	.487*	.120	.000	Reject Ho
	South Kerala	Central Kerala	269 [*]	.111	.046	<u> </u>
	NY 41 TZ 1	Central Kerala	329 [*]	.119	.017	Reject Ho
	North Kerala	South Kerala	408*	.115	.001	Reject Ho
9b. Comfortable office	Central	North Kerala	.329*	.119	.017	Reject Ho
Furniture	Kerala	South Kerala	079	.106	1.00	
	C (1- 1/ 1-	North Kerala	.408*	.115	.001	Reject Ho
	South Kerala	Central Kerala	.079	.106	1.00	
	NI1 -	Central Kerala	769 [*]	.143	.000	Reject Ho
	North Kerala	South Kerala	567 [*]	.138	.000	Reject Ho
On Wall dragged staff	Central	North Kerala	.769*	.143	.000	Reject Ho
9c. Well dressed staff	Kerala	South Kerala	.202	.127	.341	
	Cauth Vanala	North Kerala	.567*	.138	.000	Reject Ho
	South Kerala	Central Kerala	202	.127	.341	
	North Variate	Central Kerala	583 [*]	.098	.000	Reject Ho
	North Kerala	South Kerala	117	.095	.654	-
9d. Visually appealing	Central	North Kerala	.583*	.098	.000	Reject Ho
brocheure	Kerala	South Kerala	.466*	.088	.000	Reject Ho
	South Kerala	North Kerala	.117	.095	.654	-
		Central Kerala	466*	.088	.000	Reject Ho
	North Kerala Central	Central Kerala	684*	.129	.000	Reject Ho
		South Kerala	365*	.125	.011	Reject Ho
10a. Service delivered as		North Kerala	.684*	.129	.000	Reject Ho
promised	Kerala	South Kerala	.319*	.116	.018	Reject Ho
	South Kerala	North Kerala	.365*	.125	.011	Reject Ho
	South Keraia	Central Kerala	319 [*]	.116	.018	Reject Ho
	North Kerala	Central Kerala	720*	.132	.000	Reject Ho
	Norui Keraia	South Kerala	290	.128	.072	
10b. Sympathetic approach	Central	North Kerala	.720*	.132	.000	Reject Ho
of staff	Kerala	South Kerala	.430*	.118	.001	Reject Ho
	South Kerala	North Kerala	.290	.128	.072	
	South Kerala	Central Kerala	430*	.118	.001	Reject Ho
	North Kerala	Central Kerala	559*	.137	.000	Reject Ho
	North Relata	South Kerala	202	.133	.386	
10c. Dependable staff	Central	North Kerala	.559*	.137	.000	Reject Ho
Toe. Dependable staff	Kerala	South Kerala	.357*	.123	.011	Reject Ho
	South Kerala	North Kerala	.202	.133	.386	
	South Kerara	Central Kerala	357*	.123	.011	Reject Ho
	North Kerala	Central Kerala	754*	.139	.000	Reject Ho
10d. Staff records all		South Kerala	196	.134	.438	
transaction details	Central	North Kerala	.754*	.139	.000	Reject Ho
accurately	Kerala	South Kerala	.559*	.124	.000	Reject Ho
acouracory	South Kerala	North Kerala	.196	.134	.438	
	South Keraia	Central Kerala	559*	.124	.000	Reject Ho
11a. Staff informed me the	North Kerala	Central Kerala	712 [*]	.153	.000	Reject Ho
exact time of service	1 torur ixciaia	South Kerala	311	.148	.108	

	(I)		Mean Difference	Std.		
Dependent Variable	LocNumber	(J) LocNumber	(I-J)	Error	Sig.	
	Central	North Kerala	.712*	.153	.000	Reject Ho
	Kerala	South Kerala	.401*	.137	.010	Reject Ho
	C (1- 1/ 1 -	North Kerala	.311	.148	.108	3
	South Kerala	Central Kerala	401*	.137	.010	Reject Ho
	North Kerala	Central Kerala	784*	.145	.000	Reject Ho
	Norm Keraia	South Kerala	350 [*]	.140	.038	Reject Ho
11b. Received prompt	Central	North Kerala	.784*	.145	.000	Reject Ho
service	Kerala	South Kerala	.434*	.129	.003	Reject Ho
	South Kerala	North Kerala	.350*	.140	.038	Reject Ho
	South Kerala	Central Kerala	434*	.129	.003	Reject Ho
	North Kerala	Central Kerala	390 [*]	.141	.018	Reject Ho
	Norui Kerara	South Kerala	147	.137	.849	
11c. Helping mentality of	Central	North Kerala	.390*	.141	.018	Reject Ho
the staff	Kerala	South Kerala	.243	.126	.165	
	South Kerala	North Kerala	.147	.137	.849	
	South Kerara	Central Kerala	243	.126	.165	
	North Kerala	Central Kerala	668*	.129	.000	Reject Ho
	North Kerara	South Kerala	414*	.124	.003	Reject Ho
11d. Staff does not appear	Central	North Kerala	.668*	.129	.000	Reject Ho
to be too busy	Kerala	South Kerala	.254	.115	.082	
	South Kerala	North Kerala	.414*	.124	.003	Reject Ho
	South Kerala	Central Kerala	254	.115	.082	
	North Kerala	Central Kerala	358*	.134	.023	Reject Ho
		South Kerala	172	.130	.558	
12a. I trust the staff	Central	North Kerala	.358*	.134	.023	Reject Ho
12a. I trust the starr	Kerala	South Kerala	.186	.120	.362	
	South Kerala	North Kerala	.172	.130	.558	
	South Relaid	Central Kerala	186	.120	.362	
	North Kerala	Central Kerala	575*	.125	.000	Reject Ho
12b. I feel safe about my		South Kerala	562*	.121	.000	Reject Ho
business data while	Central	North Kerala	.575*	.125	.000	Reject Ho
consulting the staff	Kerala	South Kerala	.012	.112	1.00	
	South Kerala	North Kerala	.562*	.121	.000	Reject Ho
	Bouth Refund	Central Kerala	012	.112	1.00	
	North Kerala	Central Kerala	950 [*]	.139	.000	Reject Ho
		South Kerala	400*	.135	.009	Reject Ho
12c. Staff is polite to me	Central	North Kerala	.950*	.139	.000	Reject Ho
120. Start is point to inc	Kerala	South Kerala	.550*	.125	.000	Reject Ho
	South Kerala	North Kerala	.400*	.135	.009	Reject Ho
	Bouil Heruiu	Central Kerala	550 [*]	.125	.000	Reject Ho
	North Kerala	Central Kerala	851*	.138	.000	Reject Ho
		South Kerala	195	.134	.439	
12d. Well trained staff	Central	North Kerala	.851*	.138	.000	Reject Ho
	Kerala	South Kerala	.656*	.124	.000	Reject Ho
	South Kerala	North Kerala	.195	.134	.439	D :
		Central Kerala	656*	.124	.000	Reject Ho
	North Kerala	Central Kerala	870 [*]	.138	.000	Reject Ho
13a. I receive individual		South Kerala	335 [*]	.134	.037	Reject Ho
attention from staff	Central	North Kerala	.870*	.138	.000	Reject Ho
	Kerala	South Kerala	.535*	.124	.000	Reject Ho
	South Kerala	North Kerala	.335*	.134	.037	Reject Ho

Dependent Variable	(I) LocNumber	(J) LocNumber	Mean Difference (I-J)	Std. Error	Sig.	
		Central Kerala	535*	.124	.000	Reject Ho
	North Variale	Central Kerala	698*	.126	.000	Reject Ho
	North Kerala	South Kerala	.180	.122	.419	
13b. Staff is clear about	Central	North Kerala	.698*	.126	.000	Reject Ho
my requirement	Kerala	South Kerala	.878*	.112	.000	Reject Ho
	South Kerala	North Kerala	180	.122	.419	
	South Keraia	Central Kerala	878*	.112	.000	Reject Ho
	North Kerala	Central Kerala	938*	.128	.000	Reject Ho
		South Kerala	237	.124	.166	
13c. Staff is willing to	Central	North Kerala	.938*	.128	.000	Reject Ho
clear my doubts	Kerala	South Kerala	.701*	.114	.000	Reject Ho
	South Kerala	North Kerala	.237	.124	.166	
	South Return	Central Kerala	701*	.114	.000	Reject Ho
	North Kerala	Central Kerala	-1.078*	.151	.000	Reject Ho
		South Kerala	147	.146	.939	
13d. Operating hours is	Central	North Kerala	1.078*	.151	.000	Reject Ho
convenient for customers	Kerala	South Kerala	.931*	.135	.000	Reject Ho
	South Kerala	North Kerala	.147	.146	.939	
	2000111101010	Central Kerala	931*	.135	.000	Reject Ho
	North Kerala	Central Kerala	877*	.132	.000	Reject Ho
		South Kerala	278	.127	.088	
14a. Simple and efficient	Central	North Kerala	.877*	.132	.000	Reject Ho
process exist	Kerala	South Kerala	.599*	.118	.000	Reject Ho
	South Kerala	North Kerala	.278	.127	.088	- · · · · ·
		Central Kerala	599*	.118	.000	Reject Ho
	North Kerala	Central Kerala	946 [*]	.149	.000	Reject Ho
141 5		South Kerala	186	.144	.592	D : II
14b. Error free process	Central	North Kerala	.946*	.149	.000	Reject Ho
exist	Kerala	South Kerala	.760*	.133	.000	Reject Ho
	South Kerala	North Kerala	.186	.144	.592	Delegat II.
		Central Kerala	760 [*]	.133	.000	Reject Ho
	North Kerala	Central Kerala South Kerala	879*	.146	.000	Reject Ho
14c. Received service	Cantrol	North Kerala	260 .879*	.141	.196	Daigat IIa
without bureaucracy	Central Kerala	South Kerala	.618*	.146	.000	Reject Ho Reject Ho
without bureaucracy	Ketata	North Kerala	.260	.141	.196	Reject no
	South Kerala	Central Kerala	618*	.130	.000	Reject Ho
		Central Kerala	934 [*]	.138	.000	Reject Ho
	North Kerala	South Kerala	503*	.133	.001	Reject Ho
14d. Advanced technology	Central	North Kerala	.934*	.138	.000	Reject Ho
used for providing services	Kerala	South Kerala	.431*	.123	.001	Reject Ho
used for providing services	Return	North Kerala	.503*	.133	.001	Reject Ho
	South Kerala	Central Kerala	431*	.123	.001	Reject Ho
		Central Kerala	655*	.120	.000	Reject Ho
	North Kerala	South Kerala	336*	.116	.012	Reject Ho
15a. Services received	Central	North Kerala	.655*	.120	.000	Reject Ho
were backed with warranty	Kerala	South Kerala	.319*	.108	.009	Reject Ho
310 Suchou Williamity		North Kerala	.336*	.116	.012	Reject Ho
	South Kerala	Central Kerala	319 [*]	.108	.009	Reject Ho
15b. Easily accessible		Central Kerala	970*	.129	.000	Reject Ho
office location	North Kerala	South Kerala	.045	.125	1.00	110,000110

Dependent Variable	(I) LocNumber	(J) LocNumber	Mean Difference (I-J)	Std. Error	Sig.	
	Central	North Kerala	.970*	.129	.000	Reject Ho
	Kerala	South Kerala	1.015*	.115	.000	Reject Ho
	South Kerala	North Kerala	045	.125	1.00	
	South Kerala	Central Kerala	-1.015*	.115	.000	Reject Ho
	North Kerala	Central Kerala	933*	.134	.000	Reject Ho
	North Kerala	South Kerala	295	.130	.069	
15c. All customers were	Central	North Kerala	.933*	.134	.000	Reject Ho
treated equally	Kerala	South Kerala	.638*	.120	.000	Reject Ho
	South Kerala	North Kerala	.295	.130	.069	
		Central Kerala	638*	.120	.000	Reject Ho
	Nouth Vanala	Central Kerala	906 [*]	.139	.000	Reject Ho
	North Kerala	South Kerala	118	.135	1.00	
15d. Courteous and	Central	North Kerala	.906*	.139	.000	Reject Ho
committed service staff	Kerala	South Kerala	.788*	.125	.000	Reject Ho
	Couth Varala	North Kerala	.118	.135	1.00	
	South Kerala	Central Kerala	788*	.125	.000	Reject Ho

The result of Post-Hoc Analysis proves that there is significant difference between the three regions with regard to Customer satisfaction.