

IMPACT OF CUSTOMER SATISFACTION ON E-LOGISTICS SERVICE PROVIDERS (A STUDY WITH REFERENCE TO CHENNAI CITY)

Mrs. N. Chitralekha,
Research Scholar, Research Department of Commerce,
Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women Chennai
chitralekhamoorthy@gmail.com

Dr. R. Savithri
Associate Professor &Head, Research Department of Commerce,
Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chennai
savithri11563@gmail.com

ABSTRACT

Every firm must prioritize customer satisfaction. As we have stepped into globalization, E-Logistics Companies have been forced to adopt cutting-edge technology to satisfy customers due to the increased competition among all e-Logistics industries. This study primarily investigates how logistics services might affect E-logistics users' levels of satisfaction. This paper's specific goal is to identify the key aspects of logistics services that impact online shoppers' satisfaction. Data has been collected through a structured questionnaire from 150 respondents in two parts. Part I consists of Demographic variables and Part II consists of customer satisfaction with e-logistic service providers. Simple percentage analysis is used to know the demographic variables. One-way ANOVA was used to analyse the factors that influence customer satisfaction with e-logistics service providers. **Keywords:** E-Logistics, Customer Satisfaction, and Service of E-logistics service providers.

Introduction

Due to globalization, E-commerce is regarded as one of the most vital and dynamic economic sectors today and one of the primary drivers of increased competitiveness. With a strong network of computerized worldwide businesses and e-commerce, e-logistics is a burgeoning industry. Technology for logistics management has become essential for effective logistics management. Moving the organization forward and performing the inverse logistic function are the effects of e-logistics design and operation. In the very competitive commercial world of today, where science is developing quickly and effective communication is crucial for overall success and, occasionally, the stability of individual acts of Logistics. Business-to-consumer (B2C) transactions are where the product is ordered by individual customers and sold by businesses that make up most of e-commerce. It is much more complicated and requires special procedures to serve customers. The customer may only repurchase the product or services if it arrives on time, without damage, or if the provider's service is adequate. Companies are developing new management strategies to satisfy and retain customers. Thus, logistics is crucial in e-commerce. The e-logistics industry is expanding quickly with new models and participants due to digitalization, information technology, and supply chains which are gradually moving towards modern approaches. E-Logistics customer service is a critical issue for service providers. As a result, they are paying increased attention to it. A successful business strategy includes utilizing digital technologies and developing new distribution channels.

Review of Literature Logistics Service Quality

Saura (2008), the study conducted to know the connection between logistics services and customer satisfaction, customer satisfaction is positively and significantly influenced by the quality of customer service representatives, the quality of the information, the quality of the orders, and the reliability of the logistics service.

Tontini (2010), the study found that logistics service quality was measured by the following factors, dependability of delivery deadline, nimbleness in delivery, delivery of the right quantity and right product, and damage-free goods, the flexibility of the service provided, problem-solving abilities, trackability, communication, trust in and expertise of the customer contact team, availability of goods and services, post-delivery support, and price.

Customer Satisfaction

Tao (2014), in the research found that a higher level of customer satisfaction can benefit the business in several ways, including increased customer loyalty, an extension of the customer's life cycle, a longer shelf life for the products they buy, and an increase in the amount of positive word-of-mouth advertising from satisfied



customers. When a customer is happy with the company's product or service, they are more likely to make repeat purchases and refer other people to the company's goods and services.

Omoneye (2019), found that customer satisfaction is strongly correlated with all costs, convenience, product quality, and risk factors of online purchasing, and customer satisfaction can affect how long customers stay to continue to use particular online retailers.

Syed (2010), the study was conducted to examine the relationships between the factors that affect online shoppers' satisfaction and their satisfaction with their purchases. They found that more specifically, there is a strong correlation between online shopping satisfaction and website design, dependability, product variety, and delivery performance.

Objective of the study

- 1. To understand the demographic variables that influence customer satisfaction
- 2. To know the satisfaction level of customers using E-Logistics
- 3. To understand the factors influencing consumer satisfaction with e-logistics

Research Methodology

The study was conducted to understand the factors influencing consumer satisfaction with e-logistics service providers. The primary data was collected using a structured questionnaire from 150 respondents in Chennai. Secondary data were collected from articles, journals, and websites. Simple percentage analysis, and ANOVA tools are used in this research. The study used a descriptive research design. A random sampling method was used to find a total of 150 respondents from Chennai city.

Data Analysis Percentage Analysis

Demographic factor	Dominant Group	%	Demographic factor	Dominant Group	%
Gender	Female	86	Marital Status	Married & Unmarried	50
Age(in Years)	20-30	51	Type of Family	Nuclear Family	75
Educational Qualification	PG	35	Size of Family	2-3 Members	31
Occupation	Private Employee	45	Usage of E-logistics service providers	1-2 years	27



Family month income (Rs.)	20,000- 40,000	29	The average expenditure for online purchases (Rs.)	Rs.500 -1,000	45

Table .1 Demographic Profiles

The table reveals that 86% of the respondents are women. 51% of the respondents are between 20 -30 years, 35% of the respondent's PG graduates.45% of the respondent family income is between 20,000-40,000.75% of the respondents belong to a Nuclear family.31% of the respondents consist of 2-3 members in their family.27% of the respondents use respondent use E-Logistics Service for 1- 2 years and 45% of respondents spend Rs.500 to Rs.1000 for online purchases.

One way -ANOVA

H0 there is no significant difference between demographic variables concerning the availabilityH1 there is a significant difference between Gender, Age, Occupation, Marital status, Type of family, Usage of E-logistics,

and Money spent with Availability.

Demographic Variables	Classification	Mean	Standard Deviation	F-Value
	Male	4.2453	0.77612	11.564 P=0.001
Gender	Female	3.9878	0.67244	
	Below 20	3.8965	.70920	
	20-30	4.0819	.59143	
Age	30-40	.1279	.53833	5.832 P=0.000
	40-50	4.1818	.79855	
	Above 50 37	4.4122	.97042	
	Student	3.9384	.67286	
	Self-employed	3.9991	.67187	6.194
Occupation	Private employee	.1792	.78197	P= .000
	Professional	4.1736	.93316	
Marital Status	Married	4.2062	.73827	12.469



	Un Married	3.9703	.67477	P =.000
	Nuclear Family	3.9653	.65801	14.005
Family Type	Joint Family	4.2147	.76856	14.095 P=.000
	Less than a year	.8678	.72859	
	1-2 year	3.9651	.66493	
Usage of E-Logistics	2-3 year	4.1167	.71108	8.648 P = .000
	3-4 year	4.1375	.65767	
	More than 4 years	4.3495	.60041	
	Below 500	3.8413	.75339	
Money spent on E- Logistics	500-1000	3.9913	.66209	10.172
	1000-2000	4.1250	.64940	P=.000
	Above 2000	4.3448	.66717	

Table .2 Influence of demographic Variables on Availability

H0 there is no significant difference between demographic variables concerning Delivery Time H1 there is a significant difference between Gender, Age, Occupation, Marital status, Type of family, Usage of E-logistics, and Money spent within a short span of placing the order and delivery, Products are delivered within the time limit.

Demographic Variables	Classification	Mean	Standard Deviation	F-Value
Cala	Male	4.1651	0.899	13.507 $P = 0.000$
Gender	Female	3.8701	0.68875	
Age	Below 20	3.8140	.69983	
	20-30	3.9901	.60909	3.449 P= 0.009
	30-40	3.8779	.68438	



	40-50	4.0795	.96414	
	Above 50	4.2095	1.16594	
	Student	3.8562	.75452	
Occupation	Self-employed	3.9182	.65669	8.073
Occupation	Private employee	4.0566	.93238	P= .000
	Professional	3.8681	1.10273	
	Nuclear Family	3.8806	.68151	5.438
Family Type	Joint Family	4.0465	.86687	P= .020
	Less than a year	3.7816	.75820	
	1-2 year	3.9109	.62014	
Usage of E-Logistics	2-3 year	3.9700	.81680	4.291 P = .002
	3-4 year	4.0188	.77084	
	More than 4 years	4.1556	.75771	
	Below 500	3.7083	.78022	
Money spent on E- Logistics	500-1000	3.8968	67099	
	1000-2000	4.0319	.67823	9.056 P=.000
	Above 2000	4.2126	.82962	

Table .3 Influence of Demographic Variables on Delivery Time

H0 there is no significant difference between demographic variables concerning Shipping Cost H1 there is a significant difference between Gender, Age, Occupation, Type of family, Income, and Family Size with Low or Free delivery cost, No hidden cost for Change of drop place.



Demographic Variables	Classification	Mean	Standard Deviation	F-Value
	Male	4.0189	1.04485	9.549 P=0.002
Gender	Female	3.7244	0.82522	
	Below 20	3.7318	.81452	
	20-30	3.8588	.71564	1
Age	30-40	3.3101	1.06258	5.623 P= 0.000
	40-50	3.9015	1.06283	
	Above 50	4.1532	1.24125]
	Student	3.8539	.81078	
	Self-employed	3.8255	.78474	5.958
Occupation	Private employee	3.8616	.99450	P=.000
	Professional	3.7315	1.25438	-
	Nuclear Family	3.7167	.83485	7.212
Family Type	Joint Family	3.9423	.96621	P= .007
	Less than 20,000	3.8253	.78967	
	20,000-40,000	3.6123	.81671	1
Income	40,000-60,000	3.8311	.82612	
	60,000-80,000	4.1429	.73336	2.972 P=.012
	80,000-1,00,000	3.6358	1.05661	1
	Above 1,00,000	3.9144	1.06852	1



Family Size	2-3	3.7333	.86433	
	3-4	3.7645	.81161	4.166
	4-5	3.6132	.81538	P=.006
	Above 5	4.0112	1.02044	

Table .4 Influences of Demographic Variables on Shipping Cost

Demographic Variables	Classification	Mean	Standard Deviation	F-Value
Gender	Male	4.1557	0.84547	17.171 P = 0.000
	Female	3.8146	0.73035	
	Below 20	3.8070	.71201	
	20-30	3.8898	.67515	
Age	30-40	3.6105	.88523	6.354 P= 0.000
	40-50	4.1591	.82668	
	Above 50	4.3041	1.02255	
	Student	3.9075	.71747	
0	Self-employed	3.8327	.70950	4.167
Occupation	Private employee	4.0708	.83548	P= .000
	Professional	4.0903	.95833	
Marital Status	Married	4.0234	.83076	3.991
	Un Married	3.8823	.68878	P= .046
Family Type	Nuclear Family	3.7979	.71101	15.673 P= .000



	Joint Family	4.0849	.85218	
	Less than a year	3.7888	.78387	
	1-2 year	3.8236	.68137	
Usage of E-Logistics	2-3 year	3.9100	.75409	2.822 P=.025
	3-4 year	3.9375	.81207	
	More than 4 years	4.0944	.80552	
Money spent on E-Logistics	Below 500	3.7460	.79749	
	500-1000	3.8371	.68775	4.392
	1000-2000	3.9657	.70714	P=.005
	Above 2000	4.1006	.90738	

Table .5 Influence of Demographic Variable on Customer Complaints Return policy

H0 there is no significant difference between demographic variables concerning Customer Complaints Return policy

H1 there is a significant difference between Gender, Age, Occupation, Marital status, Type of family, Usage of E-logistics, and Money spent with the packaging of the delivered products are without damage, products are by online specifications and functions of the product.

Demographic Variables	Classification	Mean	Standard Deviation	F-Value
Gender	Male	4.1491	0.82903	12.708 P = 0.000
	Female	3.8663	0.69949	
	Below 20	3.8316	.72918	
	20-30	3.9672	.59625	3.729
Age	30-40	3.7814	.69256	P= 0.005
	40-50	4.0727	.85627	



	Above 50	4.2486	1.09383	
	Student	3.8932	.72807	
	Self-employed	3.8967	.70687	5.301
Occupation	Private employee	4.0377	.84038	P=.000
	Professional	4.0167	.94097	
	Married	4.0234	.83076	3.991
Marital Status	Un Married	3.8823	.68878	P= .046
	Nuclear Family	3.8533	.67559	11.329
Family Type	Joint Family	4.0885	.83912	P= .001
	Less than a year	3.7966	.75860	
	1-2 year	3.9318	.62874	
Usage of E-Logistics	2-3 year	3.8960	.76643	5.912 .001
	3-4 year	3.9950	.76927	
	More than 4 years	4.1347	.75206	
	Below 500	3.7698	.80996	
Money spent on E-Logistics	500-1000	3.8935	.66363	5.912
	1000-2000	3.9510	.66329	P=.001
	Above 2000	4.1885	.80079	1

Table .6 Influence of Demographic Variables on Product Quality



H0 there is no significant difference between demographic variables concerning Customer Complaints Return policy

H1 there is a significant difference between Gender, Age, Occupation, Marital status, Type of family, Usage of E-logistics, and Money spent with simple and multiple return policies Damaged or faulty products are collected and replaced quickly.

Demographic Variables	Classification	Mean	Standard Deviation	F-Value
Gender	Male	4.1557	0.84547	17.171 P = 0.000
	Female	3.8146	0.73035	
Age	Below 20	3.8070	.71201	6.354 P= 0.000
	20-30	3.8898	.67515	
	30-40	3.6105	.88523	
	40-50	4.1591	.82668	
	Above 50	4.3041	1.02255	
Occupation	Student	3.9075	.71747	4.167 P= .000
	Self-employed	3.8327	.70950	
	Private employee	4.0708	.83548	
	Professional	4.0903	.95833	
Marital Status	Married	4.0234	.83076	3.991 P= .046
	Un Married	3.8823	.68878	
Family Type	Nuclear Family	3.7979	.71101	15.673 P= .000
	Joint Family	4.0849	.85218	
Usage of E-Logistics	Less than a year	3.7888	.78387	2.822
	1-2 year	3.8236	.68137	P=.025



	2-3 year	3.9100	.75409	
	3-4 year	3.9375	.81207	
	More than 4 years	4.0944	.80552	
Money spent on E-Logistics	Below 500	3.7460	.79749	4.392 P=.005
	500-1000	3.8371	.68775	
	1000-2000	3.9657	.70714	
	Above 2000	4.1006	.90738	

Table .7 Influence of Demographic Variable on Customer Complaints & Return policy

Implications

Online shopping is expanding quickly. Providing excellent service is the only way to maintain a customer's satisfaction. Logistics Service Providers must make sure customers are happy with their services. This study indicates that logistics service providers concentrate more on customer satisfaction. Logistics service providers focus on enhancing the efficiency of the processes that increase customer satisfaction by providing Accurate information about the product and delivery time, delivering the product without any damage, and low or free delivery charges. Additionally, they have to concentrate on return policies. This would encourage new customers to avail of the services, and retain the existing consumers.

Conclusion

This study examines how logistics services affect consumers' satisfaction levels. The finding shows that the primary elements that are positively influencing consumer satisfaction were Availability, Delivery time, Product Quality, Shipping cost, and Customer return policy. Once the customers are satisfied with the service, they hesitate to switch over to the other logistic service providers.

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