



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 13 Issue: X Month of publication: October 2025

DOI: https://doi.org/10.22214/ijraset.2025.74782

www.ijraset.com

Call: © 08813907089 E-mail ID: ijraset@gmail.com



ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538

Volume 13 Issue X Oct 2025- Available at www.ijraset.com

An Empirical Study on Changing Consumer Expectations and Behavior in the Era of Q-Commerce

Anusha R¹, Abhishek², Iniyaa S³, Dr. Jyothi M N⁴

^{1, 2, 3}V Semester B.Com students, Surana College, Peenya, Bangalore 4- Professor, Department of Commerce & Management, Surana College, Peenya, Bangalore

Abstract: The effect of Covid -19 pandemic urged people to adopt to the buying habits through online shopping portals. As the marketing trends developed into more into E-commerce, quick commerce(Q-Commerce) emerged in 2020. Consumers are able to get their daily groceries at their door step so easily. Latently the shift in the consumer expectation of delivery in shorter span lead to many Q-commerce players like Blinkit, Swiggy instamart, Zepto and bigbasket started delivering their product in less than 10 minutes. This lead into more competition among the players. So the consumers are now able to get whatever they want in minutes. This research is carried to understand the changing expectations of consumers with sample size of 150 consumers. The data analysed through statistical tools and inferred that consumers are expecting speedy delivery and this resulted in using different apps for their requirement. They show dissatisfaction towards package and high delivery charges and return and refund issues. So it is suggested that service providers should focus on strengthening trust, improving product quality assurance, and catering to diverse user motivations to enhance customer retention and satisfaction.

Keywords: Q-Commerce, Consumer Behaviour, Service Providers, Consumer Expectations.

I. INTRODUCTION

Q-commerce, also referred to as quick commerce, is a type of e-commerce where emphasis is on quick deliveries, typically in less than an hour. Q-commerce originally started with food delivery and it still represents the largest chunk of the business. It has quickly expanded to other categories particularly for grocery delivery, medicines, gifts, and apparel.

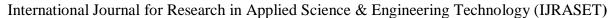
In early 2020, the restrictions imposed due to COVID-19 pandemic began to give a major boost to q-commerce as it allowed retailers to remain operational via quick home deliveries.[3] At the time, it was speculated that prolonged restrictions would result in a long-term consumer behavior shift towards quick deliveries, establishing q-commerce as "the third generation of commerce".[4] However, as pandemic restrictions began to lift and a burgeoning cost of living crisis made paying higher prices for rapid delivery less sustainable, demand for q-commerce in many parts of the world waned, causing businesses to downsize or fold altogether. Companies in Q-commerce include BigBasket, Blinkit, Swiggy, JioMart, Zepto

Q-commerce ('quick commerce') - sometimes used interchangeably with 'on-demand delivery' and 'e-grocery' - is e-commerce in a new, faster form. It combines the merits of traditional e-commerce with innovations in last-mile delivery.

The premise is largely the same, with speed of delivery being the main differentiator. Delivery is not in days but minutes - 30 or less, to be competitive. This has in turn expanded the breadth of what individuals can order, with perishable goods - like groceries - being a large niche q-commerce companies speak to. It tends to focus on the micro - smaller quantities of fewer goods. For example, a missing ingredient urgently needed for a recipe that's already in motion.

"Consumers now want and expect more items than ever to be delivered to their doorstep...It is no longer a case of waiting 24-48 hours for a delivery. Rather, the expectation for this is now a matter of minutes." - Daniel Alonso, Global Director of q-commerce, Glovo

The bigger, less visible, difference happens on the backend - in the way that q-commerce operate behind the scenes. Not all have the same business model, but many use 'dark stores' - strategically located warehouses - to ensure a quick turnaround from order to doorstep. These can be anywhere between 3229 and 7500 sq ft (300-700sqm) in size and tend to stock upwards of 1,000 unique products. Many also crowdsource labor, equipping them with a fleet of individuals ready to spring into action at any moment. The combination of these factors, plus others (including adoption of the latest softwares, and the layout of dark stores themselves) provides them with the ultimate agility and flexibility required to adeptly respond to customer demand, round the clock.





ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538

Volume 13 Issue X Oct 2025- Available at www.ijraset.com

A. Rise of Quick Commerce in India

Quick commerce has recently reshaped the e-commerce landscape in India. The concept of instant deliveries has expanded beyond traditional ready-made meals to include various items like groceries, medicines, cosmetics, and electronics, combining the speed of instant market purchases with the convenience of home shopping. This innovative model caters to consumer demand for daily essentials, including groceries, vegetables, fruits, etc., promising to revolutionise the market. Key factors such as convenience, urbanisation, and busy lifestyles have influenced consumer behaviour, prompting companies to prioritise shorter delivery times. The pandemic further accelerated these needs as social distancing and work-from-home measures discouraged in-store visits.

The quick commerce industry in India has experienced rapid growth since the pandemic. It is projected to touch US\$ 5.5 billion by 2025, as per a RedSeer report. Quick commerce platforms' contribution to the online grocery market is expected to rise from 10% to ~45% in the coming years. To adapt to this evolving landscape, the market has shifted from a singular central warehouse model to an advanced network of micro-warehouses or dark stores strategically located in proximity to delivery points, emulating the role of neighbourhood 'Kirana' stores. This model ensures a focused selection of high-demand items, typically within a two-kilometre radius. Notably, platforms such as Dunzo, Swiggy Instamart, and Blinkit have established 20-30 micro-fulfilment centres in major cities, facilitating 10-20 minute delivery services.



Figure 1: Snapshot of Quick Commerce in India

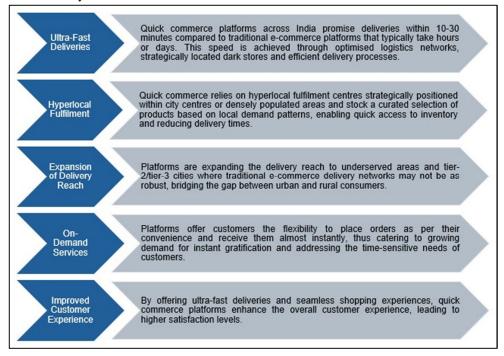


ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538

Volume 13 Issue X Oct 2025- Available at www.ijraset.com

B. Role of Quick Commerce in last-mile Delivery

Quick commerce significantly impacts last-mile delivery in India by introducing innovative solutions to address the challenges associated with traditional delivery models.



The rise of quick commerce in India represents a fundamental shift in the retail industry, led by changing consumer behaviours, technological advancements, and a favourable business environment. Quick commerce is set to change the Indian shopping experience, offering immediate satisfaction, unmatched convenience, and significant investment and growth prospects for industry stakeholders. However, as the industry evolves, the success of quick commerce companies will depend on their ability to efficiently manage delivery infrastructure in a cost-effective manner by using innovative technology and artificial intelligence.

Players are likely to prioritise growth in major cities targeting consumers that value convenience over cost, implement delivery fees for orders below a set amount, explore new revenue possibilities like advertising and FMCG partnerships, and focus on sustainability measures. The price-sensitive nature of India's market poses sustainability challenges for quick commerce players in the long term; however, a vast potential lies in India's diverse consumer demographics and varied needs.

II. LITERATURE REVIEW

Krishna Sudheer et al (2024): The researcher introduces the Digital Immediacy Adoption Framework (DiIA-F), a novel theoretical framework that explains the rapid adoption of quick commerce (Q-commerce) services in Indian urban markets. The study demonstrates paradoxical relationships such as the sustainability-immediacy paradox and the anxiety-based value-creating effects. The findings validate that cognitive-temporal and digital-psychological factors exert strong influences on Q-commerce adoption through complex psychological mechanisms that are not captured by conventional models. This framework has actionable implications for platform design, marketing, urban planning and sustainability efforts in rapidly digitalizing emerging markets.

Risba Singh (2024): The study reveals that economic impact of q-commerce resulting from consumer behavior changes includes reduced profit margins for q-commerce players due to the high operational costs of meeting logistics expectations and the need to offer affordable prices. The demand for certain appliances, like refrigerators, may decrease due to reduced long-term storage needs. To balance profitability and customer expectations, q-commerce businesses may consider partnerships with local stores, changing the economic outlook for both sectors.

Ashish Raj (2025) The researchers develop an analytical model that studies the interaction between "the delivery fees paid to the riders by the Q-commerce company" and "the efforts put by both the players - the delivery riders as well as the Q-commerce company towards a successful delivery" under two different setups: with versus without penalty. The researchers suggest that prior commitments to efforts by the Q-commerce company lead to better payoffs for both the company and the riders.





ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538

Volume 13 Issue X Oct 2025- Available at www.ijraset.com

Moreover, contrary to popular belief, the analysis shows that the sharing of rider's effort-cost mechanism in which a Q-commerce company shares some percentage of the operating cost of the riders accrues more significant benefits.

Dr.Priyanka Jarolia et al (2025): The researchers opine that introducing new standards for speed, ease of use, and consumer happiness, quick commerce has transformed traditional ECommerce. It creates opportunities for innovation and hybrid solutions, but it also presents difficulties for established firms. More integration of hyper-local, on-demand services with conventional ECommerce platforms is anticipated in the retail environment as q-commerce grows. By investing in technology, growing their delivery networks, and collaborating with major brands, ECommerce businesses can enhance their delivery times to meet rapid commerce (Q-commerce) Technology: For real-time inventory management, demand forecasting, and route optimisation, use artificial intelligence (AI) and data analytics. Additionally, real-time traffic data can increase the precision and effectiveness of deliveries.

Dr.Truptha Shankar (2024) The study observes the utilization of both e-commerce and q-commerce applications by customers, according to their diverse needs. It helps to understand the changes in preferences of the customers from electronic commerce applications to quick commerce applications.

Prof.Vishal R Thomar & Ravi Rakesh singh (2024) The study reveals that a substantial majority of respondents perceive Q-commerce as markedly more convenient and faster than traditional retail, with 58% indicating a preference for its convenience and 69% acknowledging its superior delivery speed. Satisfaction levels were also notably higher among Q-commerce users, underscoring their appeal in an increasingly digital marketplace

A. Research Gap

From the above literature review it's found that less research conducted in the Bangalore and minimal survey is on behvioural changes in customer expectations. So this research is conducted to bridge this gap.

B. Research Methodology

The survey is conducted in Bangalore city with sample size of 150 with structured questionnaires. The convenience sampling method is used for data collection. Data analysed through SPSS using tolls like Factor Analysis, One sample Test, One way ANOVA.

- To examine the changing expectations of consumers regarding product quality, delivery speed, pricing, and convenience in Q-commerce platforms.
- 2) To analyze consumer behavior patterns in adopting and using Q-commerce applications for their daily purchases.
- 3) To identify the key factors influencing consumer trust and satisfaction with Q-commerce services.
- 4) To assess the impact of Q-commerce on traditional online and offline shopping behavior.

III. DATA ANALYSIS & INTERPRETATION

Reliability Statistic	es
Cronbach's Alpha	N of Items
.753	25

The reliability coefficient ($\alpha = 0.753$) demonstrates that the instrument has a satisfactory internal consistency, ensuring that the responses collected from participants are dependable and reflect a coherent measurement of the study variables.

Table 1: showing One-way ANOVA results

ANOVA								
		Sum of		Mean				
		Squares	df	Square	F	Sig.		
Why do you use E-commerce apps?	Between Groups	29.853	5	5.971	4.069	.002		
	Within Groups	177.548	121	1.467				
	Total	207.402	126					
How fast do you want your order delivered?	Between Groups	8.020	5	1.604	2.116	.067		



ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 13 Issue X Oct 2025- Available at www.ijraset.com

	Within Groups	103.868	137	.758		
	Total	111.888	142	.736		
How often do you order from Q-Commerce apps?	Between Groups	4.365	5	.873	.723	.607
now often do you order from Q-commerce apps:	Within Groups	165.453	137	1.208	.123	.007
	Total	169.818	142	1.200		
What do you usually buy through Q-commerce?	Between Groups	14.604	5	2.921	2.287	.049
What do you usually buy through & commerce.	Within Groups	174.949	137	1.277	2.207	.047
	Total	189.552	142	1.277		
What is most important to you when using Q		13.329	5	2.666	2.342	.045
Commerce?	Within Groups	155.916	137	1.138	2.342	.043
commerce.	Total	169.245	142	1.130		
Do you trust the quality of products you receive?	Between Groups	9.344	5	1.869	2.985	.014
bo you trust the quanty of products you receive:	Within Groups	85.775	137	.626	2.903	.014
	Total	95.119	142	.020		
What would make you stop using a Q-commerce		4.369	5	.874	.735	.599
app?	Within Groups	162.876	137	1.189	.133	.377
арр:	Total	167.245	142	1.109		
How did you find about the Q-commerce app you		8.289	5	1.658	1.931	.093
use?	Within Groups	117.599	137	.858	1.931	.093
use:	Total	125.888	142	.030		
What time do you usually place your Q-commerce		9.184	5	1.837	2.186	.059
orders?	Within Groups	114.288	136	.840	2.100	.039
orders:	Total	123.472		.040		
		2.158	141	422	.585	.711
Do you care about eco-friendly packaging?	Between Groups			.432	.363	./11
	Within Groups	101.087	137	.738		
W. 11	Total	103.245	142	600	602	600
Would you pay extra for delivery in 10minutes or		3.440	5	.688	.603	.698
less?	Within Groups	156.308	137	1.141		
	Total	159.748	142	1.547	2 20 4	0.50
Do you use more than one Q-commerce app?	Between Groups	8.227	5	1.645	2.284	.050
	Within Groups	98.710	137	.721		
	Total	106.937	142	002	5.15	7 00
What is your biggest worry about Q-commerce?	Between Groups	4.013	5	.803	.747	.590
	Within Groups	146.135	136	1.075		
	Total	150.148	141	1.006	1.207	2.50
Do you prefer scheduled delivery or instan		5.480	5	1.096	1.297	.269
delivery ?	Within Groups	106.490	126	.845		
	Total	111.970	131		2.102	0.10
Would you recommend your favorite Q-commerce		6.980	5	1.396	2.103	.069
app to friends?	Within Groups	90.923	137	.664		
	Total	97.902	142			
Has your shopping behavior changed after using	´	7.360	5	1.472	1.347	.248
Q-commerce ?	Within Groups	149.731	137	1.093		
	Total	157.091	142			
How do you prefer to pay on Q-commerce apps?	Between Groups	8.227	5	1.645	1.682	.143
	Within Groups Total	133.983 142.210	137	.978		
			142			



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What do you do if there's a problem with your	Between Groups	4.121	5	.824	1.142	.341
order ?	Within Groups	98.858	137	.722		
	Total	102.979	142			
Do product suggestions in the app help you decide	Between Groups	3.663	5	.733	.958	.446
what to buy ?	Within Groups	104.770	137	.765		
	Total	108.434	142			
Do you think Q-commerce will continue in the	Between Groups	3.680	5	.736	.981	.431
future ?	Within Groups	102.753	137	.750		
	Total	106.434	142			

Inferences:

A one-way Analysis of Variance (ANOVA) was conducted to examine whether there were significant differences among respondent groups regarding their perceptions, attitudes, and behaviors toward E-commerce and Q-commerce applications. The results for twenty survey items are summarized in the table above.

The findings indicate that five variables demonstrated statistically significant differences at the 0.05 level, namely: Reasons for using E-commerce apps (Sig. = 0.002), Types of products purchased through Q-commerce (Sig. = 0.049), Factors considered most important when using Q-commerce (Sig. = 0.045), Trust in the quality of products received (Sig. = 0.014), Usage of more than one Q-commerce app (Sig. = 0.050)

These results suggest that respondents differ significantly in their motivations for using E-commerce platforms, the kinds of products they prefer to purchase, and the aspects they prioritize—such as convenience, price, delivery speed, or reliability—when engaging with Q-commerce services. Furthermore, there are variations in the degree of trust users place in product quality and their tendency to use multiple Q-commerce apps, indicating competitive user behavior and selective platform loyalty.

Conversely, the remaining fifteen variables, including delivery speed preference, ordering frequency, eco-friendly packaging awareness, willingness to pay extra for faster delivery, recommendation behavior, and payment mode preference, did not reveal significant differences among the groups. This suggests that user attitudes toward these operational aspects of Q-commerce are generally consistent and uniform across different demographic or behavioral segments.

Overall, the ANOVA results highlight that motivational and trust-based factors are the primary dimensions where consumer opinions diverge, whereas functional or behavioral aspects of Q-commerce usage remain relatively homogeneous. These insights imply that service providers should focus on strengthening trust, improving product quality assurance, and catering to diverse user motivations to enhance customer retention and satisfaction.

One-Sample Test							
	Test Value = 0	Test Value = 0					
					95% Cor Interval		
			Sig. (2-	Mean	Differ	ence	
	t	df	tailed)	Difference	Lower	Upper	
Gender	40.201	142	.000	1.629	1.55	1.71	
Age(In years)	18.405	142	.000	1.287	1.15	1.42	
Education	39.422	142	.000	2.154	2.05	2.26	
Monthy income(in ₹) (optional)	20.952	142	.000	1.972	1.79	2.16	
Which app you will use for Drink or Grocery?	20.142	142	.000	3.406	3.07	3.74	
Why do you use E-commerce apps?	20.334	126	.000	2.315	2.09	2.54	
How fast do you want your order delivered?	26.566	142	.000	1.972	1.83	2.12	
How often do you order from Q-Commerce apps?	31.811	142	.000	2.909	2.73	3.09	
What do you usually buy through Q-commerce?	30.471	142	.000	2.944	2.75	3.14	
What is most important to you when using Q-Commerce?	25.048	142	.000	2.287	2.11	2.47	
Do you trust the quality of products you receive?	26.259	142	.000	1.797	1.66	1.93	
What would make you stop using a Q-commerce app?	26.892	142	.000	2.441	2.26	2.62	
How did you find about the Q-commerce app you use?	25.046	142	.000	1.972	1.82	2.13	
what time do you usually place your Q-commerce orders?	32.015	141	.000	2.514	2.36	2.67	
Do you care about eco-friendly packaging?	20.203	142	.000	1.441	1.30	1.58	
Would you pay extra for delivery in 10minutes or less?	28.225	142	.000	2.503	2.33	2.68	



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Do you use more than one Q-commerce app?	31.029	142	.000	2.252	2.11	2.40
What is your biggest worry about Q-commerce ?	23.990	141	.000	2.077	1.91	2.25
Do you prefer scheduled delivery or instant delivery ?	24.666	131	.000	1.985	1.83	2.14
Would you recommend your favorite Q-commerce app to friends?	24.977	142	.000	1.734	1.60	1.87
Has your shopping behavior changed after using Q-commerce ?	26.873	142	.000	2.364	2.19	2.54
How do you prefer to pay on Q-commerce apps?	27.993	142	.000	2.343	2.18	2.51
What do you do if there's a problem with your order?	26.415	142	.000	1.881	1.74	2.02
Do product suggestions in the app help you decide what to buy ?	26.508	142	.000	1.937	1.79	2.08
Do you think Q-commerce will continue in the future ?	24.244	142	.000	1.755	1.61	1.90

All variables show statistically significant differences from the test value (0). This indicates that respondents have clear and measurable attitudes, preferences, and behaviors regarding Q-commerce apps, from app selection and ordering frequency to delivery preferences and trust in product quality.

IV. CONCLUSION

Q-commerce has become need of the hour for consumers, as because of the shift in the life style and social status all have inclined towards delivery of the products to their door step. The change in the expectations of the consumers with regards to Q-commerce survey conducted to analyse the behaviour of the consumers. The major findings are the consumers expects speedy delivery, high quality, good packing and relatively easy process of refund and replacement. The q-commerce players are facing challenges in retention of the consumers as their expectations are high. Consumers are not loyal to any Q-commerce players in Bangalore, as per their need and expectations they choose the Q-commerce players for ordering products. It is suggestable to service providers that they should focus on strengthening trust, improving product quality assurance, and catering to diverse user motivations to enhance customer retention and satisfaction

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