

ATM: The New Horizon of E-Banking

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Abstract

In today's world, technology has been used as strategy to win market and customers, which has changed the pattern of almost all the organizations in performing their business. The Indian banking industry is not an exception of it. With the advent and application of Information Technology (IT) the banking sector is becoming more and more innovative delivering a good competitive and better Service Quality (SQ) to their customers. It puts both the banks and the customers in a win-win situation. The present study aims at understanding the role of ATM (Automated Teller Machine) and its influence on the service quality level provided by various commercial banks in Odisha, and the paper concludes that ATM has become an integral part to the customers in the banking industry and it will continue as more progress and innovations are made in IT sector. It is mainly based on data, collected from the banking customers in different commercial banks of Odisha. Hence the findings of this research will help the banks in Ethiopia also to establish a customer oriented strategy to retain their customers' satisfaction in future. The methodologies used for this research involved interviews with bank customers and bank managers of the case study banks and administrations of questionnaires to a number of bank customers in Odisha. To investigate in the real-time scenario we have taken the case study of some Commercial banks limited within Odisha in order to understand "why" some prefer the use of ATM and some are not, and how it influences the BSQ level.

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INTRODUCTION

The study presents a broad overview of the current state of the banking industry in Odisha. It then goes on to identify, how the use of ATM has become extremely popular among the customers as a convenient mode of transactions. Banks are aggressively adopting this mode. In today's intensely competitive economy, providing excellent customer service plays a vital role in a company's success and failure (Mouawad and Kleiner 1996). The advantages of using ATM have given new impetus in dimensions of service quality and banks are offering new choices to customers. How the customers are deriving more and more benefits through the introduction of new innovative technology adopted by banking industry enhancing the good SQ level in order to meet their expectations. Thus the technological innovation has transformed the banking business. There have been a number of delivery platforms of electronic banking services, which are categorized as: ATMs, telephone banking, PC (home) banking, Internet banking, managed network, public access kiosk and

TV-based service (Daniel, 1994; Liao *et al.*, 1999; Mols, 1998; Mols *et al.*, 1999; Mols, 2000; Ramsay and Smith, 1999). In this paper, ATM is the main channel of distribution to be explored due to the increase in its popularity.

Mariappan (2006) analyzed that IT revolution has brought stunning changing in the business environment perhaps no other sector has been influenced by advances in technology as much as banking and finance, as a result, the banking pose a totally new look today. Patnaik (2004) in his paper stress upon that shared ATMs is taking place and they are mutually beneficial. More and more banks have adopted technology to deliver their services and this has resulted in: reduced costs, the creation of value added services for customers (Zhu *et al.*, 2002), the facilitation of their employees' jobs and ultimately, the provision of self-service options for customers (Dabholkar and Bagozzi 2002). Lovelock and Wirtz (2000), identified secure and convenient location, adequate number of ATM, user-friendly

system, and functionality of ATM. Davies *et al.*, (1996) examined the factors that influence customers' satisfaction about ATM service quality. These factors include costs involved in the use of ATM, and efficient functioning of ATM. Al-Hawari *et al.* (2006) compiled a list of five major items about ATM service quality that include convenient and secured locations, functions of ATM, adequate number of machines and user-friendliness of the systems and procedures. Some studies have also identified customers' dissatisfaction with ATM service quality dimensions. Large numbers of customers are resistant to this new mode of service delivery and prefer more personalized service (Murdock and Franz, 1983). The researchers noted that customers do not like ATMs because of impersonality, vision problem, fear of technology and reluctance to change and adopt new mode of delivery of service (Stemper, 1990). Automated service quality is defined by Santos (2003, p235) as "the consumers' overall evaluation and judgement of the excellence and quality of e-service offerings in the virtual marketplace". Ogunsemore (1992) defined ATM as a cash dispenser which is designed to enable customers enjoy banking service without coming into contact with Bank Tellers (Cashiers). Moutinho (1992) examined relationship of dimensions of usage rate and performance expectation with customers' prolonged satisfaction with ATM services. Thus all most all previous researchers have found that reliability feature of ATM is essential to consumers' use of electronic channels of banking (Liao and Cheung, 2002; Polatoglu and Ekin, 2001). Thus, Moutinho (1992) established that ATM facility resulted in speed of transactions and saved time for customers.

Odisha Banking Industry: An Overview

Recently, banking industry in different countries has shown their interest transition in improving SQ from traditional branches to electronic channels. Accordingly, many of them have relied more on EBS (Electronic Banking Services) with significant growth in electronic facilities such as Internet, computer, ATMs, telephone and mobile phones. Such trend happened in many countries, for example, in Australia, Japan, Singapore, Korea, Hong Kong, India, Indonesia. When we take the case of Odisha, the economy is predominantly agrarian and rural-oriented. The state has a fairly well spread structure of banks with one branch of commercial bank for around 17 thousand people on an average (RBI annual report, 2012). Odisha has invested enormous funds in order to increase the number of online channels and to establish the needed infrastructure. In the beginning of 90's due to the distortions in Indian economy, RBI introduced reforms in the financial and banking sector so as to promote rapid economic growth and development

with stability through the process of Liberalization, Privatization and Globalization (LPG). During the post reform era especially after the period of banking liberalization new private sector and foreign banks emerged - equipped with the latest technology. So, now a day's all most all the banks have started with the concept of multi- channels, like ATMs, credit cards, debit cards, telephone/ mobile banking, internet banking, call centers, etc. with a large preference for core banking system through internet from where the whole banking operation can be controlled by saving cost and manpower on the one hand and enhancing the fast and quality effective service on the other hand to the customers. The second banking sector reforms gave much more importance to the modernization and technology up gradation than any other field. The IT Act of 1999 started the speedy process of E-Banking i.e. the delivery of bank's services to the customers at their office or home by using electronic technology. Bank managers we interviewed during the course of the study are keenly aware that in today's market what they firmly believe that the success in the future rest on delivering excellent service to customers determining the performance of the banks for which they need higher and developed E-banking system at the hands of this huge technological revolution.

ATM Leads To Higher SQ Level

The banking industry in India is highly competitive. Customers always want lower costs but better service comparatively. In India, customers in the banking sector are very much aware about the BSQ (Banking Service Quality) due to the significant entry of private and foreign sector banks in to the public arena after the banking reforms during 1990s. The increase of customer satisfaction can contribute significantly to performance (Barnes and Cumby, 1995; Berry *et al.*, 1985). They contribute to economic growth of the country by making funds available for investors to borrow as well as financial deepening in the country. But in order to survive in the competitive banking industry and to increase their financial performance banks have to improve the BSQ level continuously that will satisfy their customers giving a direct boost to enhance their banking performance in all spheres. Moutinho (1992) established that ATM facility resulted in speed of transactions and saved time for customers. Shamsdouha *et al.*, (2005) found that 24 hours service, accuracy, and convenient locations were the main predictors of customer satisfaction. Thus, customers of online services expect equal or higher levels of service quality than the customers of traditional services (Santos, 2003). In a study conducted by Colgate (2003), he has found out that customer service is the most important factor that influences satisfaction rates or levels. The increased

use of online banking services has many advantages for both customers and banks Cabas (2001) noted investment opportunities, reduction in costs, satisfaction of customers and competitiveness as motives to install and add new ATM to the existing network. Al-Hawari (2006) argued that efficient ATM functions positively affect customers' perception of service quality. All those leads to greater SQ level giving rise to higher customers' satisfaction along with greater banking performance. The present study aims to explore the current trend of ATM in Odisha i.e. how many people prefer ATM and why and to determine the major factors responsible for ATM, based on respondents' perception giving a boost to the BSQ level.

MATERIALS AND METHODS

The methodology is based on a set of questionnaire developed in order to gather the data, which consists of two parts i.e. the first one is dealing with the demographic profile of respondents and the second one gives a clear picture about the attitude of each financial customer (respondents) of the bank towards their use of ATM.

Sampling

The sample population used for this study consists of any person having the account in the commercial banks within Odisha. The total sample is consisting of 300 respondents.

Data Collection

The study is based both on primary as well as on secondary data. Primary data has been collected from those persons who are having their accounts in different branches of any commercial banks, within Odisha state, by filling up a well structured questionnaire and through direct personal interview with the bank customers. Secondary data is collected from the banking journals, magazines, bank's website, SLBC annual report and from different RBI publications.

RESULTS

Demographic Profile

The demographic profile of the respondents was presented in Table 1. It is clear from the table, that out of 300, 61.33% are male and 38.66% are female and most of the respondents (30.66%) belong to 25-35 age groups. Regarding education most of the customers are qualified.

Table 1: Demographic profile.

Variables	No	%
Gender		
Male	184	61.33
Female	116	38.66
Age		
18-25	67	22.33
25-35	92	30.66
35-45	82	27.33
45 above	59	19.66
Education		
HSC	95	31.66
Degree	103	34.33
Post Graduate	81	27
Doctorate	21	7
Total	300	100

Occupational Distribution

Occupational distributions of the respondents were shown in table 2. Results revealed that out of total respondents 28% are students, 24.33% are self employed. 28.33% are professionals where as 19.33% are belong to the house hold group.

Table 2: Occupational distribution.

Respondents' Category	No	%
Students	84	28
Self Employed	73	24.33
Professional	85	28.33
Household	58	19.33
Total	300	100

ATM User and Non User

The Table 3 reflects that the respondents' classification based on user and non user criteria. Out of total respondents, 186 respondents (62%) are using ATM in their day today life and 114 customers (38%) are the non users of ATM.

Table 3: ATM user and non user.

Respondents	No	%
User	186	62
Non user	114	38
Total	300	100

Reasons to Prefer to Use ATM

Literature finds a large number of studies that highlight the satisfaction of customers with ATMs (Moutinho and Brownlie, 1989, Wan *et al.*, 2005; Komal and Singh, 2009; Mobarek, 2007). It is clear from the above Table 4 which reveals that 29.03% uses ATM due to its time saving nature i.e. in order to avoid long queue in banks, 17.2% like it for its faster transaction, 15.05% respondents prefer it as it is easy for them to use whereas 19.89% people are in favor of the view that it is easy for them because they don't have to search for bank every time as they can get cash or check their balance enquiry through mini statement (account statement) by using it frequently wherever there is an ATM counter. Above all 18.81% customers like it as it is having all the above criteria to meet the customers' satisfaction.

Table 4: Reasons to prefer ATM.

ATM users	No	%
Time Saving	54	29.03
Faster Transaction	32	17.2
Easy to use	28	15.05
Easy banking anytime/ anywhere	37	19.89
All of the above	35	18.81
Total	186	100

Reasons for not to Prefer ATM

Howcroft (1991) noted that dissatisfaction among the customers is associated with frequent interruptions and breakdown of ATMs. The old age people are generally shy of use of ATM because of perceived risk of failure, complexity, security, and lack of personalized service (Moutinho, 1992). The Table 5, proves it that why they don't take a keen interest to use it. Among the nonusers of ATM, 37.71% don't use it as they don't have knowledge to operate it. About 28.07% are getting fear about the safety and security due to the ATM fraud or stolen of ATM card again because of robbery at the location of the ATM as compared to a Banking Hall. 21.05% people get frustrated due to regular failure, card jamming and breakdown of machine and 13.15% don't take an interest to use it due to its all above demerits.

Table 5: Reasons for not to prefer ATM.

ATM non users	No	%
No Knowledge	43	37.71
Lack of Security	32	28.07
ATM Machine problem	24	21.05
All of the above	15	13.15
Total	114	100

Respondents' View Regarding ATM Increases BSQ Level

The above Table no VI, shows out of total 300 respondents maximum customers (both from users and nonusers group) admit that use of ATM leads to higher BSQ. Even it is seen that among non users group, about 51.8% agree with the view though they are not using ATM due to several reasons. Very few people are not in favor of using ATM due to the lack of knowledge and security matter.

Table 5: Respondents' view regarding ATM increases BSQ level.

Respondents' view	User		Non user	
	No	%	No	%
ATM increases BSQ level				
Yes	166	89.2	59	51.8
No	3	1.61	21	18.4
Can't say	17	9.13	34	29.8
Total	186	100	114	100

DISCUSSION

It is clear from the study that about 38 % customers are not using ATM due to several reasons. Hence, banks should develop strategies to motivate the non- users through awareness, education, extending personalized services, and demonstrating the functions of ATMs. The banks should focus not only on the satisfaction of ATM users, but also aim at delighting them to ensure their retention. Banks should capitalize on the spread of communication technology and the theory of innovations (Marshall and Heslop, 1988). They should make commitment to redress the service failures of ATMs. There is the issue of security; a robbery is more viable at the location of the ATM as compared to any Banking Hall. Where the location of the ATM is in a secluded or isolated area, a robbery can occur. This creates a negative impact on BSQ level. So Banks have to take caution while setting up ATMs. There is not cent percent guarantee of the ATM functioning, so dependence on ATM may fail the customer at times. Though some transactions may be convenient and useful to the customers, but not all advanced transaction.

CONCLUSION

Out of total respondents more than 50% agree that it is convenient and time saving to use ATM as it acts like a "mini bank" providing cash to the needy customers at anytime, anywhere whenever and wherever there is an ATM counter. May be it is restricted to withdraw cash up to a certain limit, still then it fulfills the customers' need in order to meet their growing demand at anytime satisfying one of

the best dimensions of BSQ level. Hence, banks should focus on important aspects of user friendliness, ATM functionality and availability of transaction receipts, security and privacy as well as frequent monitoring and maintenance of ATMs. It is clear from the study that even non users are strongly in favor of the view that ATM helps to improve the BSQ along with the banking performance. Hence, this paper recommends that the Banking Industry should augment and diversify their services through ATMs. Banks should also improve ATM features to suit customers and use this medium to build a strong and a sustainable relationship with customers.

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