Consumers’ Perceptual Biasness in Debit Cards of Indian Banks

Prasad S*
Associate Professor in Marketing, Regional College of Management, Bhubaneswar, India

Abstract

Debit cards are highly attractive to convenience driven consumer markets. As banks explore potential debit-based loyalty system therefore convenience and control seeking consumers found debit cards as more attractive option. This card business depends on very reliable and secure technology and requires a very strong connectivity backbone. The topic taken for the research is a recent issue related to the debit card and the preference of customers towards different types of debit cards of different banks. Primary data has been collected through questionnaire of sample taken from the market which is a replica of the universe (Population of India). By the primary data the profile of customer being selected which are highly affected by the utility of the debit card. Hence the research justifies that the factors responsible for selecting a debit card are favourability, situational, recognize and bias. MDS (Multi-dimensional scaling) technique has been taken to study the perception of the customer for different brands of debit cards especially the public sector and private sector banks. The study has given an idea about the high inclination of customers towards private sectors debit cards than public sectors one.

Keywords: Consumer; Perceptual biasness; Debit cards; Multi-dimensional scaling; Indian banks

Introduction

Indian financial institutions like banking is the lifeline of the nation has helped in developing the major sectors of the economy and usher in a new dawn of progress on the Indian economy. The sector has created the hopes and aspirations of millions of people into reality in the world. But it has control the miles of difficult terrain and suffers under the foreign rules and the pangs of partition. Recently Indian banks have adopted the modern technology and can strongly compete with modern banks of the world [1]. The economic reforms of have presented a challenge before Indian banking sector to make continuous innovation with the pace of new technological change. The technological advancement and adoption is purely based on the consumers’ acceptance and positive response. Traditionally, banks were only concerned with the stereotyped activities like acceptance of deposits and lending surplus money to the customer at some rate of interest and the common products being availed by banks were savings account, current account, term deposit account and lending products like cash credit and term loans. It becomes very much necessary for the today’s banks to offer the services by taking into account the customer’s needs, preferences, perceptions and convenience [2]. Customer is now enjoying the facilities of banks like anywhere, anytime banking. Internet banking has changed the bank market dramatically. Innovative banking services like plastic cards introduced in the market which has changed the customer lifestyle by making them more dynamic. Today’s customer mostly made the transactions through plastic cards and most preferably the highly acceptable debit cards. Consumers are trying to code, categorize and evaluate economic outcomes and frame the transaction which determines the benefits and the level of satisfaction they expect to receive [3]. The process of payment mode serves to influence outcome perceptions of the customers.

Electronic banking has a wider scope which has adopted by the banking sector now days. Banks have developed various sophisticated products to meet the basic requirements of their customers. Indian banking sector has faced a dramatic change with the advent of tech savvy private sector banks and foreign banks. Public sector banks have created a large network of traditional branches to approach their customers from urban to rural as compared to the private and foreign players. Information technology has made a revolution to deliver the banking products and services efficiently and effectively. The new private and foreign bankers on the basis of adoption of new technological services like plastic cards, personal computer banking, electronic funds transfer, internet banking can able to connect maximum number of customers in spite of having less physical presence. Now public sector banks are equally trying to move towards electronic banking, which leads to the remarkable development with respect to its operational efficiency, customer services, employee productivity and banking profitability. Now banks are bringing flexibility in their distribution channel by reengineering their services.

There is a rising acceptance of debit cards in retail locations which has increased the debit cards transactions. Highest number of consumers and merchants acceptance of plastic cards has changed the way to move beyond the traditionally geographic located merchant base to modern arena of transactions. The demand for debit cards has grown rapidly among consumers as these are more convenient than other payment options and cost effective for merchants. Consumers with the limited access to existing payment methods find a debit card is the most suitable instrument for the latest transactions. Debit cards’ superiority over credit cards as the most acceptable form of electronic payment at the point of sale and it becomes a primary consumer choice which requires relatively little scrutiny for acceptance. Debit card users who have the knowledge of hidden cost associated with the credit cards are rationally choose to use debit card to minimize the transaction costs. The drawbacks like binding limit in credit cards are converting customers to rely more on debit cards.

Objectives

Debit card plays a vital role in plastic cards which has changed the...
future of banking sector and positioned as a multiple service provider instruments for the consumer. It can able to change the perception of both customers and merchant by reducing the complexities in the financial transactions and became a strong instrument in banking operations. Keeping in view of the above discussion the present study has made an attempt to study the profile of customers using debit cards different banks. Also the study gives idea about the factors creates biasness to select the debit cards of any banks and the customers' perception about the different brands of debit cards.

Methodology

The research design is mostly based on the consumers' decision on different debit cards on the basis of banks like public and private sectors. For literature review articles are mostly taken from published journal of e-journal sites. Sampling methods used for this research is stratified sampling one (respondents mostly in the twin city Bhubaneswar and Cuttack of Odisha i.e. an state in Eastern India). Questionnaire method was used to collect the data from the market from 400 respondents during the period of January to February 2016. Pilot survey has been conducted to know the acceptance of debit cards of different banks and their relative importance for the customers. Considering the feedback of the respondents questionnaires are being designed to apply different statistical tools for inference. Statistical tools like factor analysis and multi-dimensional scaling techniques are used to interpret the data by data analysis through the statistical software SPSS.

Literature Review

Customer perceives that private sector banks provide better services in terms of facilities than the public sector banks. Although public sector banks have a strong presence in terms of branches in the market, but now days they are facing stiff competition from private sector banks in terms of quality of services they offered [4]. High level of customers' adoption of online banking systems because of perceived usefulness, ease of use, awareness of technology and less perceives risks on customer to accept online banking system [5]. Extending technology driven products for farmers will enhance the brand image of commercial banks and helps to enlarge the base of operation to attract more farmers to commercial banks [6]. Adoption of new technological in banks are always assets to enlarge the base of operation to attract more farmers to commercial banks. Domestic and foreign banks are providing five basic services associated with internet banking like to view account balances and transaction histories, paying bills, transferring funds within accounts, requesting for credit card advances and ordering checks quickly [9]. Now days customers' can able to do anywhere and anytime banking through internet banking services provided by the banks through their websites [10]. With the advent of new technologies in banking sectors customers' can able to do e-banking through the internet services and applications in mobile phones. The main motivation factors for the consumers to use internet banking are the speed, the convenience of remote access, seven days and twenty four hours availability of services and the price incentives [11]. The easier accessibilities of the banking products and services facilitates the adoption of internet banking by consumers [12]. The services offered by the banks like internet banking, automated tailor machine (ATM) and phone banking are substitute to each other [13]. Consumer will prefer highly to a particular types of internet banking services where the consumer familiarity is highest [14]. Clients' usage rate of banking products and services through internet banking depends upon the attitude customers' towards it [15].

Consumers’ influenced towards internet banking through document accessibility of internet, awareness of e-banking and resistance to change. Sellers’ support plays a vital role on clients’ usage of internet banking [16]. All the financial institutions has accepted that smart card technology as a viable retail point of sale transactional alternative and a right replacements for cash in everyday exchange situations around the world [17].

Credit card is right kind of plastic card for those customers who use it to increase their purchasing power [18]. Plastic cards of different banks provide new packages to attract the customers like tele-ticketing, offers, insurance coverage and reward points etc. Debit cards penetrate very rapidly in the consumers’ market while Rysman clarified through his research that demographic variables have high impact on consumer choice for any brand of credit cards [19,20]. Hayashi, Sullivan and Weiner (2003) examined that consumers have given equal importance on adoption of debit cards as well as direct deposit and electronic bill payment [21]. Credit card holders are influenced more by the informal sources than the mass media and are using credit cards because of ease of payment and risk of carrying cash [22]. Older adults use credit cards with similar frequency to younger adults when circumstances and opportunities for consumption in both the groups are similar [23]. Lots of factors are responsible for the growing demand of plastic cards like rapid expansion, increasing acquisitive middle class, growing demand of expenses towards travel and entertainment, sophisticated merchant establishment and more transparency in financial system [24]. There is an increase usage of credit cards in developing countries because of increased level of socio-economic and technological development [25].

In twenty first century plastic cards as an efficient electronic payment system changed the market into a cashless society by reducing the transactions through coins and notes [26]. The changing utility of the smart card can be able to deal with the transaction of non-financial data which has changed the purchase system through collection and exchange [27]. This change affected the retailers through their store and office upgradation, replacement of point of sales terminals and giving training to the cashiers which has indirectly created a substantial cost to accept the smart cards. The latest features of plastic card like pay later, pay now and pay before has created future prospects by the development of the cashless society [28]. The authorization system quality can be measured through two major considerations like the enhancement of customer's quality service by reducing the waiting time at the point of sale and by reducing the risk of bad credit transactions [29]. Any banks credit and money supply can be controlled through the amount of credit have given to individuals as well as households [30]. There is a negative relationship exist between the usage of consumer's bankcard and store cards during transaction as store cards plays a substitute of bank cards [31]. The evidence of credit cards explosive growth in numbers and amount of transactions indicates the benefits derived by the customers and merchants [32]. Consumers considers few factors like income level, fees for service network, add on card facility availability, revolving credit facility, insurance facilities, cash withdrawal charges, lost card liabilities for selecting the best credit card provider [33]. Consumer perceived now days that credit card is the convenient substitute for carrying cash and a right kind of credit facilities for a short period [34].

The advent of innovations in information and communication technology has changed the usage of credit card which indirectly encourages the customer for compulsive buying [35]. These cards have changed the horizon with various features like identity proof, storage for bank data, e-purse, fingerprint, health record, blood group and license details of each individual [36]. Worthington et al. Customers
feel comfortable to hold and use of the credit cards for spending on travel and entertainment purpose [37]. The multiple cardholders are always feeling comfortable to spend more through a specific credit card called main card which indirectly gives benefit to the card issuer [38]. Customers are willing to use the mobile phone credit card which can able to carry highest amount of information related to transactions [39]. The variations in number of credit card holders depends upon the number of times customers using the cards for the services like number of time missing payments, frequency of use, entertainment expenditures, and petrol purchase [40].

VISA and Master Card both the organizations are responsible for any kind of international payment system and both of them act as franchisers, lending their names to credit and debit cards of respective member banks and act as a guarantor of payment to merchants which will receive the cards [41]. Both VISA and Master card are not credit or debit card companies but functioning for bankers to provide a global network to give authorization, clearing and settlement of card transactions for both credit and debit cards. Less educated, lower income groups, middle-aged and owner of fewer credit cards are mostly using the cash transactions [19]. In other way debit and credit card users are mostly younger, highly educated and holds more numbers of credit or debit cards. The rising interest of customers towards debit cards is because of combination of factors like ease of availability of cards, profile of customer inclined towards debit averse and zero interest rates on cards [42]. Todays’ competitive market customers are financially so much sophisticated and eager to use the latest technology plastic card like debit cards to avoid interest due to credit cards which shows that the amount of spending is more on credit cards but the number of transactions is more on debit cards [43]. The emerging trend in India shows a greater importance of debit card in daily lives which capture the market in places like supermarkets, petrol stations, convenience stores where most transactions are done by cashes or cheques in earlier days [44]. The high acceptability of debit cards with comparison to credit cards is because of few factors like assurance of payments to retailers, use interest free period to avoid cashes or cheques in earlier days [44]. The high acceptability of debit cards with comparison to credit cards is because of combination of factors like ease of availability of cards, profile of customer inclined towards debit averse and zero interest rates on cards [42].

Results and Analysis

Demographic profile

The respondents selected for the debit card holders are mostly income level above Rs.10 Lacs (59%) followed by Rs.8 to 10 Lacs (30%). 77% of the total respondents are in the age group of 30 to 40 year. There is almost equi-proportionate of salaried employees, professionals and businessman and around 78% of them are married and having one or two kids (Table 1).

Different brands of debit cards

Out of 400 respondents, 39.5% and 13.5% of respondents are using debit cards exclusively and 46.5% are both from private and public sector banks. 36.25% of respondents are using the Industrial Credit and Investment Corporation of India (ICICI) a private sector bank followed by 26% by Housing Development Financial Corporation (HDFC) a private sector bank shown in Table 2.

Factor analysis

This research focused mostly to the customer perception towards selecting a debit card. Several statements are generated from the variables to measure attitude of the respondents on a 5-point Likert scale. These scores are measured though the factor analysis to know the utility of each factors.

Table 3 depicts the variables under each of the four desired factors. The first factor ‘favorability’ identified with acceptance, high level of discounts in brand of debit card, transaction in ATM (Automated Tailored Machine), discounts on the basis of point system and international transaction. The second factor ‘situational’ explains the selection of a brand of debit card depends upon number of ATMs and distance of ATM from residence. The third factor ‘recognize’ explains the cash back reward system and unlimited transactions. The fourth factor ‘bias’ explains the debit card is selected because of influence of family and most popular bank.

Ranking has made on the basis of highest factor loadings generated by the different factors. In the Table 4 customers have given highest factor loading score to the factor like ‘favorability’ followed by ‘situational’, ‘recognize’ and ‘bias’ respectively.

<table>
<thead>
<tr>
<th>Particular</th>
<th>Category</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Income in Rs.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 5 Lac</td>
<td>16</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5Lac to 8 Lac</td>
<td>26</td>
<td>6.5</td>
<td></td>
</tr>
<tr>
<td>8Lac to 10Lac</td>
<td>122</td>
<td>30.5</td>
<td></td>
</tr>
<tr>
<td>10Lac above</td>
<td>238</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-25</td>
<td>15</td>
<td>3.75</td>
<td></td>
</tr>
<tr>
<td>25-30</td>
<td>77</td>
<td>19.25</td>
<td></td>
</tr>
<tr>
<td>30-35</td>
<td>104</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>35-40</td>
<td>204</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>Occupation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>11</td>
<td>2.75</td>
<td></td>
</tr>
<tr>
<td>Salaried Employee</td>
<td>124</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Businessman</td>
<td>145</td>
<td>36.25</td>
<td></td>
</tr>
<tr>
<td>Professional</td>
<td>120</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Family size(2+)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor</td>
<td>15</td>
<td>3.75</td>
<td></td>
</tr>
<tr>
<td>Married with no kid</td>
<td>72</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Married with one kid</td>
<td>168</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Married with two kids</td>
<td>145</td>
<td>36.25</td>
<td></td>
</tr>
</tbody>
</table>

Table 1: Demographic profile of respondents.

<table>
<thead>
<tr>
<th>Particular</th>
<th>Category</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private Sector</td>
<td>158</td>
<td>39.5</td>
<td></td>
</tr>
<tr>
<td>Public Sector</td>
<td>55</td>
<td>13.75</td>
<td></td>
</tr>
<tr>
<td>Both</td>
<td>187</td>
<td>46.75</td>
<td></td>
</tr>
<tr>
<td>Debit Cards of different banks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICICI(Private Sector)</td>
<td>145</td>
<td>36.25</td>
<td></td>
</tr>
<tr>
<td>HDFC(Private Sector)</td>
<td>96</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>SBI(Public Sector)</td>
<td>89</td>
<td>22.25</td>
<td></td>
</tr>
<tr>
<td>PNB(Public Sector)</td>
<td>35</td>
<td>8.75</td>
<td></td>
</tr>
<tr>
<td>Others(both Public and Private)</td>
<td>35</td>
<td>8.75</td>
<td></td>
</tr>
</tbody>
</table>

Table 2: Profile of respondents using different brands of debit cards.
shows that customers prefer primarily ICICI followed by HDFC, PNB
for HDFC is (1.42, -0.11), for ICICI is (0.16, 1.36) and for PNB is (-1.39,
the basis of the responses. The coordinates created are represented in
Multi-dimensional scaling technique can able to generate the different coordinates created on
is represented in two-dimensional space. Multi-dimensional scaling
technique is able to generate the different coordinates created on
is 0.15 which is acceptable and the R2 value is 0.92 or 92% which is also
accepted. The perceptual image about the different brand of debit cards
was observed through the factor analysis the importance of each
card. The relative importance of the variables can able to generate the
to select any brands of debit cards. The above image shows that customers prefer primarily ICICI followed by HDFC, PNB and finally SBI debit card respectively.

Concluding Observation
It was observed through the factor analysis the importance of each
card. The relative importance of the variables can able to generate the
to select any brands of debit cards. The above image shows that customers prefer primarily ICICI followed by HDFC, PNB and finally SBI debit card respectively.

Limitations and Directions for Future Research
As the research conducted in two cities of eastern part of India
greater number of customers and more brand of debit cards can be
considered for the further research. Here mostly young generation and mostly middle class respondents considered for the research work. Various categories of customers with upper class segment can be
considered for the further research.

References