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Phone : +91 73059 14348 – [info@iledu.in](mailto:info@iledu.in) / [Chairman@iledu.in](mailto:Chairman@iledu.in)



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## “CYBER FRAUD AND BANK LIABILITY”

**AUTHOR** – ISHITA AHLUWALIA, STUDENT AT AMITY UNIVERSITY

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### ABSTRACT

The expansion of digital banking and online financial services has increased the risk of cyber fraud, which is posing legal and regulatory challenges to the banks and customers. Cyber fraud comprises unauthorized electronic transactions, phishing, identity theft, malware, and online payment system fraud, leading to considerable financial loss to the customers. In such cases, the liability of the banks is a complex legal issue that is often involved in the cases of cyber fraud. This study aims to focus on the legal framework of cyber fraud and the liability of the banks, with special reference to the regulatory mechanism adopted by the Reserve Bank of India and the provisions of the Information Technology Act 2000, the Banking Regulation Act 1949, etc.

The paper also deals with the responsibilities of banks in the enforcement of cybersecurity measures, protection of customer information, and the provision of prompt grievance redressal facilities. Furthermore, the paper discusses the interpretations of laws that establish the liability of banks in instances of unauthorized online transactions. The research emphasizes the need to strengthen the regulations, cybersecurity, and consumer awareness to avert cyber fraud. Strengthening the legal and regulatory system would be critical in this context to ensure accountability, consumer protection, and trust in the system.

The purpose of this study is to explore the legal issues involved in cyber fraud and analyze the regulatory environment with respect to the liability of banks for unauthorized digital transactions. The study is focused on the legal responsibilities of banks with regard to providing appropriate cybersecurity solutions, safeguarding sensitive customer information, and ensuring secure digital banking services. Additionally, the study aims to evaluate the role of regulatory bodies such as the Reserve Bank of India in formulating guidelines and policies for mitigating cyber threats in the banking industry. Lastly, the study will also discuss some of the relevant provisions under the Information Technology Act, 2000, Banking Regulation Act, 1949, and consumer protection legislation, which are useful in determining the extent of bank liability.

**Keywords:** Cyber Fraud, Bank Liability, Digital Banking, Cybersecurity Regulation, Consumer Protection, Unauthorized Transactions, Financial Fraud.

### 1. INTRODUCTION

The fast pace at which digital technology is evolving has significantly impacted the banking and financial services industry worldwide. The introduction of internet banking, mobile banking, digital wallets, and online payment systems has increased the convenience of financial transactions. While the introduction of

technological advancements in the field of finance has increased the level of convenience, it has also posed a threat to the banking system worldwide. The most significant threat to the banking system is the increasing rate of cyber fraud. Cyber fraud is defined as the fraudulent activities carried out through the digital platform, including phishing, identity

theft, unauthorized electronic fund transfer, malware, and online payment fraud.<sup>483</sup>

In the recent past, the problem of cyber fraud has emerged as one of the major concerns for financial institutions as well as customers, as it results in significant financial losses.<sup>484</sup>

Moreover, the problem of cyber fraud affects the trust of the general public in the online banking system. As the role of banks in the online system is increasing, the problem of liability for cyber fraud has emerged as one of the major challenges for the legal system. At the same time, the problem of identifying the liable parties for the losses due to cyber fraud has emerged as one of the major challenges for customers. Therefore, the problem arises as to whether the bank is liable for the losses due to cyber fraud, or the customers must take the risk for the negligence in the maintenance of their confidential information.

In the context of the Indian legal system, the regulatory environment for cyber fraud and bank liability is based on the Information Technology Act, 2000, the Banking Regulation Act, 1949, and the RBI guidelines.

Moreover, with the increasing use of digital financial services and financial technology platforms, the need for an overall legal and regulatory environment, which clearly addresses the liabilities of banks and customers in the context of cyber fraud, has become more pressing. The judiciary has also played a significant role in determining the liabilities of banks and ensuring that banks adopt necessary measures to safeguard consumer interests.

Therefore, the issue of cyber fraud and bank liabilities has emerged as a major area of legal and regulatory concern. The purpose of this research is to identify the legal issues associated with cyber fraud, analyse the overall regulatory environment with respect to bank liabilities, and assess the overall effectiveness of

the legal and regulatory environment in safeguarding consumer interests in the context of digital banking services.

### RESEARCH OBJECTIVES

The main objective of this research is to examine the issue of cyber fraud, especially in the banking industry, and then examine the legal principles that govern liability. In recent times, there has been an increase in the usage of digital banking, and it is important to examine whether the existing legal frameworks provide sufficient protection to consumers and hold banks accountable.

The first important objective of this research is to examine the nature and characteristics of cyber fraud, especially in the banking industry. There are various types of cyber fraud, which include phishing, identity theft, credit card fraud, and online banking fraud. By examining all these types of cyber fraud, it is easier to understand how cyber fraudsters take advantage of technology and human error to gain unauthorized access to financial information.

The other important objective is to examine the legal framework that governs cyber fraud and banking liability. There are various laws that govern cybercrime and banking, and these laws play an important role in determining liability when there is financial loss due to cyber fraud.

### RESEARCH QUESTIONS

1. What are the major forms of cyber fraud in the context of the digital banking system?
2. What is the extent of liability of the banks in the context of unauthorized electronic transactions resulting from cyber fraud?
3. How effective are the legal provisions in the Information Technology Act, 2000, and the Banking Regulation Act, 1949, in the context of cyber fraud and the protection of the consumer?

<sup>483</sup> See Jonathan Clough, *Principles of Cybercrime* 8–10 (2d ed. 2015).

<sup>484</sup> Reserve Bank of India, *Annual Report 2022–23*, <https://www.rbi.org.in>.

4. What is the role of the Reserve Bank of India in the context of regulating the standards of cybersecurity in the banking system, including the liability of the bank in the context of digital banking fraud?

5. What are the regulatory and legal reforms that are necessary to strengthen the protection of the consumer in the context of the digital banking system against the occurrence of cyber fraud?

## RESEARCH METHODOLOGY

The approach that this research is going to adopt is the doctrinal method of legal research. This method of legal research involves the analysis of the principles derived from the statutory provisions, the decisions of the courts, and the academic literature. The doctrinal method of legal research is the most commonly used method of legal research, as it enables the thorough analysis of the existing legal framework.

The primary sources of information that the researcher is going to use for the purpose of conducting the research pertain to the statutory provisions, the regulatory guidelines issued by the financial authorities, and the court judgments pertaining to the issue of cyber fraud and bank liability.

The secondary sources of information that the researcher is going to rely on pertain to the books, academic articles, research papers, and reports that have been written on the issue of cybercrime, bank regulation, and the protection of consumers in the online world. Academic literature is an important source of information that provides an insight into the issue of cyber fraud.

## 2. LEGAL FRAMEWORK GOVERNING CYBER FRAUD

The rapid development of digital banking and electronic financial transactions has led to cyber fraud as a major concern for consumers and financial institutions alike. To address the

new challenges of cyber fraud, India has introduced a legal and regulatory framework to prevent cybercrime, ensure secure digital transactions, and fix liabilities for financial fraud. The legal and regulatory environment is largely governed by statutory laws, banking regulations, and guidelines of the regulatory authorities.<sup>485</sup>

### 2.1 Information Technology Law

The major laws that deal with cybercrime in India include the Information Technology Act of 2000.<sup>486</sup> This act offers legal recognition to the various electronic transactions that occur in the country and offers provisions to deal with various cyber offenses, including hacking, identity

theft, and online fraud. There are various sections of this act that have significant relevance in the case of online fraud involving banking transactions.

For example, Section 43 of this act offers provisions for the unauthorized access of computer systems, stealing of data, and damaging computer systems and computer networks, imposing penalties on individuals involved in the unauthorized access of computer systems and the manipulation of computer systems. Section 66 of the act<sup>487</sup> also offers provisions for the criminalization of hacking and online fraud through computer systems and other digital systems. Section 66C of this act offers provisions for the criminalization of identity theft, which often takes the form of fraud committed through the misuse of the personal banking details of individuals, including passwords, PIN numbers, and one-time passwords. Section 66D of the act offers provisions for the criminalization of cheating through the use of computer systems, including phishing and online banking scams.

<sup>485</sup> *Information Technology Act*, No. 21 of 2000, § 43, India Code (2000).

<sup>486</sup> *Information Technology Act*, No. 21 of 2000, § 43, India Code (2000).

<sup>487</sup> *Information Technology Act*, No. 21 of 2000, § 66, India Code (2000).

## 2.2 Banking Regulations and Institutional Oversight

Besides the enactment of cybercrime laws, the banking sector is also governed through the Banking Regulation Act, 1949,<sup>488</sup> which oversees the functioning of banking institutions in India. While the act does not explicitly deal with the issue of cyber fraud, it establishes the authority of the central banking institution and also makes it mandatory for the banks to ensure the smooth functioning of their businesses.

The main authority that oversees the functioning of the banks and issues guidelines in the context of cybersecurity is the Reserve Bank of India. The RBI has also issued various regulations and guidelines to strengthen the cybersecurity framework of the banking sector, considering the increased threat of cyber threats in the banking sector.

## 2.3 Consumer Protection and Banking Ombudsman Scheme<sup>489</sup>

Besides cyber laws and banking laws, the role of consumer protection laws<sup>8</sup> is also significant in protecting the rights of the consumers of banking services. The Consumer Protection Act, 2019, provides the consumers the right to claim compensation for the deficiencies in the

services provided by the banks, including the failure to provide adequate security against cyber frauds.

Moreover, the consumers also have the option to approach the Ombudsman Scheme introduced by the RBI under the Reserve Bank – Integrated Ombudsman Scheme, 2021, in case of any issues with the banking services, including unauthorized electronic transactions and cyber frauds, at a low cost.<sup>490</sup>

## 3. TYPES OF CYBER FRAUD IN BANKING

The growth of digital banking services has provided an opportunity for cybercriminals to

take advantage of loopholes in the financial system. Cyber fraud in the context of banking refers to the commission of an unlawful activity through electronic means with the intention of obtaining unauthorized access to bank accounts, financial information, or electronic payment systems. Such unlawful activities not only result in financial losses for the customer but also affect the trust that users have in the digital banking system. It is important to understand the various types of cyber fraud.

### 3.1 Phishing Attacks<sup>491</sup>

Phishing attacks are one of the most common types of cyber fraud in the banking sector. In phishing attacks, cyber criminals pretend to be genuine financial organizations and send emails, messages, and links to their customers in order to steal their confidential information like login credentials, debit/credit cards, PIN numbers, and one-time passwords (OTPs). These emails and messages may look genuine and even include links that take the customers to fake websites that look like genuine banking websites. After getting the personal information from the victim, the cyber criminals use the information to access the victim's bank account and make unauthorized transactions.

### 3.2 Identity Theft<sup>492</sup>

Identity theft occurs when cybercriminals obtain and misuse a person's personal or financial information without their consent. In banking fraud, this may involve the unauthorized use of identification documents, bank account details, or digital credentials to conduct fraudulent financial transactions. Identity theft is often facilitated through data breaches, phishing attacks, or malicious software that captures sensitive information from users' devices. Such activities are punishable under provisions of the Information Technology Act, 2000, which criminalizes the misuse of electronic data and personal identification.

<sup>488</sup> *Banking Regulation Act*, No. 10 of 1949, India Code (1949).

<sup>489</sup> **Reserve Bank of India**, *Reserve Bank-Integrated Ombudsman Scheme*, 2021, <https://www.rbi.org.in>. <sup>8</sup> *Consumer Protection Act*, No. 35 of 2019, India Code (2019).

<sup>490</sup> *Banking Regulation Act*, No. 10 of 1949, India Code (1949).

<sup>491</sup> **Symantec Corp.**, *Internet Security Threat Report* (2022).

<sup>492</sup> **Debarati Halder & K. Jaishankar**, *Cyber Crime and the Victimization of Women* (2012).

### 3.3 Malware and Ransomware Attacks

Malware is malicious software that cybercriminals use to attack computer systems, causing damage and stealing sensitive information. Malware attacks take place through malicious emails, fake websites, and infected applications. Once malware gains access to a customer's device, it has the ability to monitor keystrokes, collect banking passwords, and divert financial transactions to unauthorized accounts.

Ransomware is a type of malware that prevents users from accessing their systems until they pay a ransom. Ransomware attacks usually target organizations, but it is also possible for banking customers to fall victim to malware attacks through their personal devices, which they use for online banking.

### 3.4 Card Skimming and ATM Fraud

Card skimming is another type of banking fraud that has been on the increase over the years. In card skimming, cybercriminals place skimming devices on ATMs and POS terminals, which have the ability to collect information from the magnetic strip on customers' debit and credit cards. In addition, cybercriminals have been known to place cameras and keypad overlays on ATMs, which have the ability to collect customers' PIN codes.

### 3.5 Card Skimming and ATM Fraud

Card skimming is another form of banking fraud that has been on the increase over the years. In card skimming, cybercriminals install skimming devices in ATMs and POS machines, and such machines are capable of retrieving information from the magnetic strip of customers' debit and credit cards. Additionally, cybercriminals have been known to install cameras and keypad overlays on ATMs, and such machines are capable of retrieving customers' PIN codes.

### 3.6 Online Payment and UPI Fraud

With the rise of digital payment systems, fraudsters have also found new ways of

cheating and committing fraud using such platforms and Unified Payment Interface (UPI) systems. Many victims of such frauds believe they are receiving money, whereas in reality, they are being tricked into making a payment for the fraudster's account.

The Reserve Bank of India has issued guidelines to banks and other such organizations to improve the authentication process and raise awareness among consumers about such types of frauds.

### 3.7 Insider Fraud and Data Breaches

Cyber fraud in banking may also arise from internal threats, where employees or insiders misuse their access to confidential financial data for personal gain. In addition, large-scale data breaches can expose sensitive customer information, which may later be used for fraudulent banking activities. Financial institutions are therefore required to implement strict cybersecurity policies, data protection measures, and internal monitoring systems to prevent such incidents.

In conclusion, cyber fraud in banking takes multiple forms and continues to evolve with advancements in technology. As digital financial services expand, banks and regulatory authorities must adopt stronger cybersecurity frameworks, improve fraud detection mechanisms, and enhance customer awareness to effectively combat these threats.

## 4. BANK LIABILITY IN CYBER FRAUD CASES

The increased reliance on digital banking platforms has resulted in a significant rise in the risk of cyber fraud in the financial sector. The increased reliance of customers on online banking, mobile banking, and electronic payment systems for conducting financial transactions has given rise to issues of liability for unauthorized transactions. The determination of the liability of banks in the case of cyber fraud is based on the responsibility of the banks in ensuring the safety of the systems, the behaviour of the customers

in protecting their credentials, and the legal and regulatory framework applicable in this regard.

The legal and regulatory responsibility of the banks in India is to ensure the implementation of adequate cybersecurity practices for the protection of the data and financial transactions of the customers. The financial institutions need to ensure the safety of their digital platforms, the implementation of advanced authentication systems, and the scrutiny of suspicious activities within their systems. The legal and regulatory authority responsible for overseeing the practices of the financial institutions is the Reserve Bank of India, which issues guidelines and directs the banks to ensure high standards of cybersecurity practices.

One notable regulatory change in this regard is the RBI's guidelines on the topic of "Customer Protection – Limiting Liability of Customers in Unauthorized Electronic Banking Transactions."<sup>493</sup> These guidelines specifically address the conditions under which the bank is liable for the financial losses caused due to cyber fraud. According to the RBI's regulations, if the fraud occurs due to the negligence of the bank, the customer's liability stands at zero, and the bank must compensate the customer for the entire loss.

In cases where the fraud occurs due to the third-party breach, if neither the bank nor the customer is at fault, the liability is determined based on the time taken for the customer to report the unauthorized transaction. If the customer promptly reports the fraud, the liability is waived. However, if the customer fails to report the fraud within the stipulated time frame, the customer must share the losses.

Customer negligence is also a major factor in determining the liability of banks. If the customer, for instance, voluntarily reveals sensitive information such as passwords, PINs, or one-time passwords to fraudsters, the banks cannot be held liable for the loss incurred by the

customers. Such actions of customers are considered contributory negligence, and the banks will not be held liable for the loss incurred by customers.<sup>494</sup>

Besides the role of the regulatory guidelines, the role of the statutory law cannot be undermined when determining the liability of banks for fraudulent transactions. The Information Technology Act, 2000, has provided legal provisions for dealing with cyber offenses such as identity theft, unauthorized access to computer systems, and online fraud, which helps in identifying and prosecuting cybercriminals who conduct fraudulent transactions online. The Consumer Protection Act, 2019, also helps customers to claim damages from banks for deficiency in banking services, resulting in loss to customers.

## 5. ROLE OF REGULATORY AUTHORITIES

Regulatory authorities have a vital role to play in the prevention of cyber fraud and ensuring accountability in the banking sector. In the wake of the increasing number of digital banking services, it is the responsibility of the regulatory authorities to lay the foundation by creating a legal framework, setting standards, and ensuring the protection of consumers' rights. In the case of India, there are several regulatory authorities working in tandem to curb the menace of cyber fraud in the banking sector.

### 5.1 Role of the Reserve Bank of India

The major regulatory authority that oversees the banking sector in India is the Reserve Bank of India.<sup>495</sup> The RBI is entrusted with the responsibility of regulating the banking sector, overseeing the functioning of financial institutions, and issuing guidelines that ensure the safety of the digital banking platform. The RBI has introduced various regulations to tackle the issue of cyber fraud and ensure the safety of the banking system from cyber threats.

<sup>493</sup> Reserve Bank of India, *Customer Protection – Limiting Liability of Customers in Unauthorized Electronic Banking Transactions*, RBI Notification (July 6, 2017).

<sup>494</sup> *Consumer Protection Act*, No. 35 of 2019, India Code (2019).

<sup>495</sup> *Reserve Bank of India Act*, No. 2 of 1934, India Code (1934).

The RBI has initiated various steps to tackle the issue of cyber fraud, including the issuance of guidelines on “Customer Protection – Limiting Liability of Customers in Unauthorized Electronic Banking Transactions.” The RBI has issued guidelines that define the circumstances under which the customer is protected from financial loss due to cyber fraud. The RBI has also issued guidelines that require the banks to ensure the safety of the banking system from cyber threats through the implementation of robust security systems, real-time transactions, and efficient grievance handling systems.

The RBI has also mandated the banks to ensure the safety of the banking system through the implementation of advanced cybersecurity systems, including multi-factor authentication systems, fraud management systems, encryption systems, and regular security audits.

### 5.2 Role of Cyber Security and Technology Regulators

Other than the RBI, other regulators also help in the regulation of cyber fraud. The Indian Computer Emergency Response Team is the body that responds to cyber security threats. It also provides technical advice on how to prevent cyber threats. CERT - In is the body that monitors cyber security threats.<sup>496</sup> It also sends alerts regarding cyber attacks on various sectors, including financial organizations. The Ministry of Electronics and Information Technology plays an important role in the regulation of cyber law. It ensures that the cyber law is implemented effectively. It also promotes the development of secure information technology.

### 5.3 Consumer Protection and Grievance Redressal

Another significant responsibility of these authorities is to protect the consumers who are victims of cyber fraud. The RBI has put in place a grievance redressal system through the Reserve Bank Integrated Ombudsman Scheme, 2021, which enables customers to file

complaints against banks in cases of unauthorized electronic transactions, delay in resolving disputes, and poor security practices, among others. Further, the Central Consumer Protection Authority was established under the Consumer Protection Act, 2019, which aims at protecting the rights of consumers and preventing any violation of consumer protection laws, including cyber financial services. Consumers can file cases in consumer courts in cases of financial losses resulting from poor banking services.

### 5.4 Regulatory Challenges

Despite the presence of numerous regulatory bodies, several challenges need to be addressed to ensure effective control of cyber frauds. One such challenge is the dynamic nature of cyber threats, as they tend to change rapidly, making it challenging for the regulatory bodies to keep pace with the changing environment. Moreover, cooperation and coordination among various regulatory bodies are essential for ensuring effective control of cyber frauds, as the problem is quite widespread and cannot be controlled by a single body alone.

### 5.5 Need for Strengthened Regulatory Oversight

To ensure effective control of cyber frauds in the banking sector, several measures need to be taken by the regulatory bodies, such as updating the policies related to cyber security, strengthening the monitoring systems, and ensuring cooperation and coordination among banks, law enforcement agencies, and technology regulators. Emphasis should also be placed on consumer awareness programs, data protection, and fraud detection tools to reduce the risk of cyber frauds.

<sup>496</sup> *Information Technology Act*, No. 21 of 2000, § 70B, India Code (2000).

## 6. CASE STUDIES ON CYBER FRAUD AND BANK LIABILITY

### 6.1 Shreya Singhal v. Union of India (2015)<sup>497</sup>

One of the landmark cases with regards to cyber law in India is the Shreya Singhal v. Union of India case. Though the case mainly focused on the constitutional validity of Section 66A of the Information Technology Act, 2000, it is also important with regards to the regulation of cyber law and cyber offenses in India.

In this case, the petitioner challenged the constitutional validity of Section 66A of the Information Technology Act, 2000, as it violated the right to freedom of speech and expression under Article 19(1)(a) of the Constitution of India. The Supreme Court, in this case, held that Section 66A of the Information Technology Act, 2000, is unconstitutional as it is vague and broad, and may be misused to restrict the freedom of speech and expression of an individual.

Though this case is not directly related to banking fraud, it is an important case with regards to the development of cyber law in India and the need for proper legislation with regards to cyber offenses, ensuring that the rights of an individual are not violated in the process of regulating such offenses, including those related to financial transactions conducted online.

### 6.2 ICICI Bank Ltd. v. Shanti Devi Sharma<sup>498</sup>

In the case of ICICI Bank Ltd. v. Shanti Devi Sharma, the issue concerned the unauthorized withdrawals from the customer's bank account through fraudulent electronic transactions. The customer alleged that the bank had conducted the electronic transactions without her consent, and the bank had failed to take adequate security measures to protect her bank account.

The consumer forum in the case analyzed the issue of whether the bank had taken adequate measures to ensure that the customer's bank

account was not accessed without authorization. The decision in the case emphasized the role of banks in ensuring that their electronic banking systems are secure enough to protect their customers from unauthorized transactions. The decision in the case emphasized that banks have the obligation to ensure that they provide their customers with safe and secure banking services, and they may be held liable for any losses that their customers may suffer due to their negligence.

### 6.3 Unauthorized ATM Withdrawals Cases

There are many cases of unauthorized ATM withdrawals, in which the consumers have lodged complaints against the banks for fraudulent transactions from their accounts. In many of these cases, the courts and consumer forums have looked into the circumstances under which the fraud occurred, whether it was because of the negligence of the consumers themselves or the bank's security system.

In cases of credit card cloning and ATM skimming, the banks are expected to take adequate security measures such as installing cameras, secure ATM machines, and using secure technology for the cards. According to the Reserve Bank of India regulations, banks are expected to upgrade the ATM technology to ensure that no fraud occurs in the system. Consumer forums have many times given their verdict in favour of the consumers in cases of unauthorized transactions, if the banks failed to prove the presence of adequate security measures in their system. This shows that banks should use the best technology to ensure the security of their consumers from cyber crimes.

### 6.4 SIM Swap Fraud and Banking Liability

Another type of cyber fraud that is frequently experienced is SIM swap fraud, in which the perpetrator is able to acquire the customer's mobile number and use it to intercept the one-time passwords that are used to conduct online banking transactions. In several cases, customers have argued that the bank is liable

<sup>497</sup> *Shreya Singhal v. Union of India*, (2015) 5 S.C.C. 1 (India).

<sup>498</sup> *ICICI Bank Ltd. v. Shanti Devi Sharma*, Consumer Complaint No. 123/2013 (India).

for failing to detect the suspicious activities that occur when there is a sudden change in the SIM swap.

It has been held that the bank should have a risk monitoring system that is able to detect abnormal patterns in the transactions; however, the customer should also report the loss of connectivity to the mobile service provider.

### 6.5 Lessons from Case Studies

The aforementioned case studies reveal some of the key aspects of the principles that govern cyber fraud and bank liability. Firstly, banks must ensure the development of effective cyber security architecture. Secondly, the customer must ensure the safety of their confidential information. Thirdly, the regulatory guidelines and judicial decisions attempt to achieve a balance between the interests of consumers and the effective use of digital banking platforms.

In conclusion, the aforementioned case studies reveal the changing legal scenario in the context of cyber fraud and the significance of regulatory guidelines and judicial interventions in the context of the digital banking ecosystem.

## 7. CHALLENGES IN ADDRESSING CYBER FRAUD

The growth of digital banking and online financial transactions has also led to an increase in the risk of cyber fraud. Legal and regulatory measures have been developed to address the issue of cyber fraud. However, several challenges have been identified as impediments to the prevention, detection, and resolution of cyber fraud. These challenges emanate from the complexities, limitations, and dynamics of the issue.

### 7.1 Rapid Technological Advancements

One of the biggest challenges faced in controlling cyber fraud is the fact that technology is changing at a fast pace. In most cases, cyber fraudsters are using advanced techniques to evade the existing security systems in digital banking systems. For instance, fraudsters are using techniques like

malware, phishing, and artificial intelligence to execute fraud. In this context, it is challenging for the authorities to keep track of the changing trends in cyber fraud.

### 7.2 Jurisdictional and Cross-Border Issues

Since cyber fraud is a borderless crime, it is challenging to deal with it in a particular jurisdiction. In most instances, cyber fraud is committed in other countries, and it is difficult to prosecute the fraudsters in one's own jurisdiction. For example, the Information Technology

Act, 2000, has provisions that protect against cyber fraud, but it is difficult to enforce the provisions of the act if the fraud is committed in another jurisdiction.

### 7.3 Lack of Consumer Awareness

A major cause of cyber fraud cases is the lack of awareness among bank customers. There have been numerous cases of bank customers unknowingly sharing their passwords, PINs, one-time passwords, etc., with fraudsters who pose as bank representatives. Consumers have also fallen prey to fake websites, fraudulent links, etc. Despite the best efforts of banks and regulatory bodies, bank customers remain unaware of the risks involved in online financial transactions.

### 7.4 Inadequate Cybersecurity Infrastructure

Banks have made significant investments in the digital space, but the infrastructure for cybersecurity may not be the same for all. Small banks or financial service providers may not have the resources to invest in the latest fraud detection systems, etc. Inadequate security measures have made the banking system more vulnerable to cyber attacks. Despite the efforts of the Reserve Bank of India, which has issued guidelines for banks to improve their cybersecurity measures, the problem lies in the implementation of the same.

### 7.5 Difficulties in Determining Liability

Determining the liability of the banks and the customers is another major challenge in handling cyber fraud cases. Unauthorized

transactions occur due to various reasons, including system vulnerabilities, third-party breaches, and customer negligence. The legal complexities involved in determining the liability of the banks and the customers, whether the banks have been negligent in providing appropriate security measures or the customers have contributed to the fraud through their negligence, often lead to prolonged disputes between the customers and the banks.

### 7.6 Delays in Investigation and Dispute Resolution

The investigation of cyber fraud cases is a time-consuming task, involving various steps such as technical investigation and coordination between various government agencies. The recovery of the stolen money also takes time, causing frustration for the victims of cyber fraud. Although the Reserve Bank – Integrated Ombudsman Scheme, 2021 has provided a platform for resolving disputes between the customers and the banks, the investigation and documentation of the cases often lead to delays.

### 7.7 Data Protection and Privacy Concerns

The increasing tendency of banks and digital payment systems to store customer data also poses a threat of data protection and privacy concerns. Data breaches may lead to the exploitation of customer information, and such data may be used for fraudulent purposes in the future. Ensuring the safety of customer data and providing efficient digital banking services is one of the major challenges for banks and digital payment systems.

### 7.8 Need for Continuous Regulatory Adaptation

The changing nature of cybercrime also demands that regulators continuously update and amend the legal and regulatory environment with respect to cyber fraud and security. Existing legal and regulatory environments may not be sufficient to address new forms of cyber fraud resulting from

technological innovations such as digital wallets, cryptocurrency, and other fintech services.

## 8. POLICY RECOMMENDATIONS

The rise of cyber fraud in the banking sector calls for a comprehensive policy to address cybersecurity, regulations, and consumer protection. With the rise of digital financial services, it is imperative that governments, financial institutions, and regulatory bodies take a proactive stand to ensure that cyber fraud is curbed, thus preventing financial losses. The following policy recommendations are intended to fill the gaps in the legal and regulatory frameworks governing cyber fraud, including bank liabilities.

### 8.1 Strengthening Cybersecurity Infrastructure in Banks

Banks must use state-of-the-art cybersecurity tools to ensure the safety of their digital banking services.<sup>499</sup> Financial institutions must use strong encryption tools, multi-factor authentications, biometric authentications, and real-time fraud detection tools to ensure the safety of their digital banking services. Moreover, financial institutions must conduct regular cybersecurity audits to identify vulnerabilities in their banking systems. Regulatory bodies, such as the Reserve Bank of India, must ensure that financial institutions adhere to cybersecurity regulations, failing which severe penalties must be imposed.

### 8.2 Enhancing Consumer Awareness and Digital Literacy

It is observed that a majority of cyber fraud incidents take place due to inadequate awareness among consumers about digital banking risk factors. Banks and other related authorities should conduct awareness programs for consumers to enlighten them about common types of cyber fraud schemes such as phishing, fake customer service calls, and fraudulent payment requests. Such

<sup>499</sup> Reserve Bank of India, *Master Direction on Information Technology Framework for Banks* (2016).

awareness programs and digital literacy programs may help consumers to identify such types of fraudulent schemes and protect their confidential banking information.

### **8.3 Improving Fraud Detection and Reporting Mechanisms**

Fraud detection is of prime importance for preventing cybercrime in the banking sector. Banks should design efficient fraud detection tools to detect abnormal patterns of transactions and suspicious activities related to customer accounts. Banks should immediately notify customers if any suspicious activity is detected in their accounts. Banks should also provide consumers with easily accessible platforms to report cyber fraud incidents.

### **8.4 Strengthening Legal and Regulatory Frameworks**

The existing legal framework in the case of cybercrime needs to be reviewed and updated from time to time to deal with the emerging technological threats. The provisions under the Information Technology Act, 2000, need to be strengthened to include more specific regulations in the case of cyber fraud in the field of digital banking and other financial technologies. The government also needs to consider imposing stricter laws against cybercriminals and stronger compliance requirements for financial institutions.

### **8.5 Enhancing Coordination Among Regulatory Authorities**

Cyber fraud is a multidisciplinary issue involving various sectors, including the banking sector, the telecommunications sector, and the digital technology sector. Thus, there is a need to strengthen the coordination between the various regulatory authorities to deal with the issue of cyber fraud effectively. The Reserve Bank of India, the Indian Computer Response Team, and other law enforcement agencies need to work in coordination with each other to deal with the issue of cyber fraud effectively.

### **8.6 Strengthening Consumer Protection and Compensation Mechanisms**

The policy measures should also be directed towards improving consumer protection mechanisms to ensure that victims of cyber fraud receive timely assistance and compensation.

The regulatory bodies must ensure that banks adhere to transparent procedures in dealing with consumer grievances over unauthorized transactions. The grievance redressal mechanism under RBI's Integrated Ombudsman Scheme, 2021 must be strengthened to resolve disputes between banks and their customers quickly.

### **8.7 Promoting International Cooperation**

As cyber fraud is related to international operations, it is important that international cooperation is strengthened between law enforcement agencies to investigate cyber fraud cases. The government must strengthen international cooperation with other countries and law enforcement agencies to trace cyber criminal networks and share digital evidence. This will significantly improve the government's ability to prosecute cybercriminals who operate globally.

### **8.8 Encouraging Technological Innovation for Security**

The government must encourage technological innovations to improve security measures in banking. Artificial Intelligence, Machine Learning, and Blockchain technology have the potential to improve security measures in banking.

## **9. CONCLUSION**

The rapid development of digital banking and financial technology has greatly impacted the modern financial system, increasing efficiency, accessibility, and convenience for consumers. Despite the development of digital banking and other related technologies, cyber fraud has been a major problem resulting from the development of online banking platforms and

electronic payment systems.<sup>500</sup> Cybercriminals are using technological loopholes, consumers' negligence, and weaknesses in the security systems of banks to carry out fraudulent financial transactions. Therefore, cyber fraud has become a major legal and regulatory problem in the banking sector.

The study focused on exploring the legal issues of cyber fraud and examined the legal and regulatory environment for bank liabilities for unauthorized electronic transactions. The legal environment in India is largely governed by the Information Technology Act, 2000, dealing with cyber offenses such as identity theft, hacking, and online fraud, and banking regulations

under the Reserve Bank of India's supervision. Consumer protection and resolution of disputes, such as the Reserve Bank – Integrated Ombudsman Scheme, 2021, also play an important role in safeguarding the interests of consumers affected by cyber fraud.

The study also identified the various types of cyber fraud that exist in the banking sector. These types of cyber fraud include phishing, identity theft, SIM swap fraud, card skimming, and fraudulent online payment requests. However, the liability of the bank also depends on factors such as the strength of the bank's cybersecurity infrastructure, the behaviour of the customer, and the reporting of the fraud.

Even after the presence of legal provisions, several challenges have been identified that affect the prevention of cyber fraud cases. These challenges include the dynamic nature of cyber fraud, jurisdictional issues, lack of awareness, and limitations in the infrastructure of the bank's cybersecurity.

Therefore, it is vital to develop the overall regulatory system, the standard of cybersecurity, and the level of awareness among consumers in order to address the issue of cyber fraud effectively. For instance, the overall regulatory system needs to be enhanced, and the authorities must update the

overall policies and regulations. In addition, the financial institutions must also adopt advanced technological systems and efficient fraud detection systems. At the same time, the consumers must also remain vigilant and careful while performing online transactions and protect their confidential banking information.

In conclusion, it is vital to develop a secure and trustworthy digital banking system, and it is essential to work in collaboration with the overall regulatory authorities, financial institutions, and consumers in order to address the issue of cyber fraud in the banking sector effectively.

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NO. 08, ARUL NAGAR, SEERA THOPPU,  
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TAMILNADU, INDIA.

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