"THE ROLE OF FORENSIC ACCOUNTING IN DETECTING & PREVENTING
FRAUD IN SELECTED INDIAN COMPANIES”

A Synopsis

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**INTRODUCTION:**

In recent years, fraud has become a significant issue for businesses and organizations worldwide, and India is no exception. Financial fraud can cause substantial damage to an organization's financial health, reputation, and stakeholder trust. In response, companies are increasingly turning to forensic accounting to detect, prevent, and mitigate the impact of fraud.

Forensic accounting is a specialized field that combines accounting, auditing, and investigative skills to uncover financial irregularities, including fraud, embezzlement, and money laundering. It is a powerful tool for companies to investigate and identify fraudulent activities and take appropriate action to prevent future occurrences.

This study will focus on the role of forensic accounting in detecting and preventing fraud in selected Indian companies. The objective is to evaluate the effectiveness of forensic accounting in identifying fraud, assessing the damage caused by fraud, and implementing measures to prevent future fraud incidents.

The study will involve a comprehensive review of relevant literature and case studies of selected Indian companies that have been affected by fraud. The selected companies will represent a variety of industries and sizes, ranging from small businesses to large multinational corporations. The research will focus on the specific techniques used by forensic accountants to identify fraudulent activities, the impact of fraud on the companies' financial health, and the measures implemented to prevent future fraud incidents.

The study will also examine the challenges faced by forensic accountants in detecting and preventing fraud in Indian companies. It will evaluate the effectiveness of the legal and regulatory framework in India in combating fraud and identify any gaps that need to be addressed. Furthermore, the study will discuss the role of education and training in developing a skilled workforce in forensic accounting.

In conclusion, the study aims to provide valuable insights into the role of forensic accounting in detecting and preventing fraud in selected Indian companies. The findings of the study will be of immense importance to companies, policymakers, and regulators, providing them with the necessary tools and knowledge to combat fraud effectively. Additionally, the study will contribute to the existing literature on forensic accounting and its role in detecting and preventing fraud, helping to advance the field of forensic accounting in India and beyond.
List of Companies can be used for research work:

Top high-profile insolvency case in India are:

1. **Bhushan Steel Ltd:**
   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 44,478 crore
   c. Market Capitalization: The highest market capitalization of Bhushan Steel Ltd was around Rs 21,000 crore.
   d. Relevance: Bhushan Steel Ltd was one of the largest steel producers in India with manufacturing plants located in Odisha, Maharashtra, and Uttar Pradesh.
   e. Scandal or Fraud: The company was accused of misrepresenting its financial statements and defaulting on loans of over Rs 44,000 crore. The founder and former chairman of the company were arrested by the Central Bureau of Investigation (CBI) on charges of fraud and cheating.
   f. Industry Representation: Steel
   g. Publicly Traded: Yes
   h. Date of Incorporation: 1/7/1983
   i. Date of Liquidation: 28/3/2018

2. **Essar Steel India Ltd:**
   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 49,473 crore
   c. Market Capitalization: The highest market capitalization of Essar Steel India Ltd was around Rs 50,000 crore.
   d. Relevance: Essar Steel India Ltd was a leading integrated steel manufacturer with a significant presence in the Indian and international markets.
   e. Scandal or Fraud: The company was accused of fraudulently siphoning off funds and defaulting on loans of over Rs 49,000 crore. The company's founders, the Ruia brothers, were also accused of money laundering and are currently facing trial.
   f. Industry Representation: Steel
   g. Publicly Traded: No
   h. Date of Incorporation: 22/12/1976
   i. Date of Amalgamation: 21/12/2020

3. **Videocon Industries Ltd:**
   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 59,451 crore
c. Market Capitalization: The highest market capitalization of Videocon Industries Ltd was around Rs 15,000 crore.

d. Relevance: Videocon Industries Ltd was a major consumer electronics and home appliances company in India.

e. Scandal or Fraud: The company was accused of fraudulent transactions and defaulting on loans of over Rs 20,000 crore. The founder and former chairman of the company were declared absconders by the court.

f. Industry Representation: Consumer Electronics

g. Publicly Traded: Yes

h. Date of Incorporation: 4/11/1986

i. Date of Liquidation: 6/12/2020

4. Jet Airways India Ltd:

   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 8,000 crore
   c. Market Capitalization: The highest market capitalization of Jet Airways India Ltd was around Rs 9,000 crore.
   d. Relevance: Jet Airways India Ltd was a leading airline in India with a significant domestic and international network.
   e. Scandal or Fraud: The company was accused of defaulting on loans of over Rs 8,500 crore and mismanagement of funds. The founder and former chairman of the company were also accused of money laundering and are currently facing trial.
   f. Industry Representation: Aviation
   g. Publicly Traded: Yes
   h. Date of Incorporation: 1/4/1992
   i. Date of Liquidation: 26/6/2019

5. Electrosteel Steels Ltd:

   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 13,000 crore
   c. Market Capitalization: The highest market capitalization of Electrosteel Steels Ltd was around Rs 5,500 crore.
   d. Relevance: Electrosteel Steels Ltd was an integrated steel producer in India with a plant located in Jharkhand.
   e. Scandal or Fraud: The company was accused of misrepresenting its financial statements and defaulting on loans of over Rs 10,000 crore. The company was
eventually acquired by Vedanta Limited through the insolvency resolution process.

f. Industry Representation: Steel
g. Publicly Traded: Yes
h. Date of Incorporation: 28/3/2006
i. Date of Amalgamation: 13/6/2018

6. Amtek Auto Ltd:
   a. Lead bank: Corporation Bank
   b. Amount of loan default: Rs. 12,700 crore
   c. Market Capitalization: The highest market capitalization of Amtek Auto Ltd was around Rs 8,000 crore.
   d. Relevance: Amtek Auto Ltd was a major manufacturer of automotive components in India.
   e. Scandal or Fraud: The company was accused of defaulting on loans of over Rs 12,700 crore and of fraudulent transactions. The founder and former chairman of the company were also arrested by the CBI on charges of fraud and cheating.
   f. Industry Representation: Automotive
g. Publicly Traded: Yes
h. Date of Incorporation: 31/10/1988
i. Date of Liquidation: 17/7/2019

7. Alok Industries Ltd:
   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 29,500 crore
   c. Market Capitalization: The highest market capitalization of Alok Industries Ltd was around Rs 8,000 crore.
   d. Relevance: Alok Industries Ltd was a leading textile manufacturer in India with a significant presence in the home textile segment.
   e. Scandal or Fraud: The company was accused of mismanagement of funds and defaulting on loans of over Rs 30,000 crore. The company was eventually acquired by Reliance Industries through the insolvency resolution process.
   f. Industry Representation: Textile
g. Publicly Traded: Yes
h. Date of Incorporation: 12/11/1986
i. Date of Amalgamation: 2/3/2020
8. **Lanco Infratech Ltd:**
   a. Lead bank: IDBI Bank
   b. Amount of loan default: Rs. 44,364 crore
   c. Highest Market Capitalization: highest market capitalization was around INR 11,000 crores
   d. Relevance: Lanco Infratech was a major player in the infrastructure and power sector in India.
   e. Scandal or Fraud: The company was involved in multiple controversies related to financial irregularities and mismanagement. It also faced allegations of bribery and corruption in its business dealings.
   f. Industry Representation: Infrastructure
   g. Publicly Traded: Yes
   h. Date of Incorporation: 16/5/1993
   i. Date of Liquidation: 17/8/2018

9. **Jyoti Structures Ltd:**
   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 7,000 crore
   d. Relevance: Jyoti Structures was a prominent player in the power transmission and distribution sector in India.
   e. Scandal or Fraud: The company faced allegations of financial irregularities and mismanagement, and was also accused of manipulating its books of accounts.
   f. Industry Representation: Power
   g. Publicly Traded: Yes
   h. Date of Incorporation: 28/8/1974
   i. Date of Liquidation: 23/8/2018

10. **GTL Ltd:**
   a. Lead bank: State Bank of India
   b. Amount of loan default: Rs. 10,000 crore
   d. Relevance: GTL was a major player in the telecom infrastructure sector in India.
   e. Scandal or Fraud: The company faced allegations of financial irregularities and mismanagement, and was also accused of diverting funds meant for the acquisition of a stake in another company.
   f. Industry Representation: Telecommunications
   g. Publicly Traded: Yes
h. Date of Incorporation: 23/12/1987
i. Date of Liquidation: 12/6/2018

11. Orchid Pharma Ltd
   a. Lead bank: Lakshmi Vilas Bank
   b. Amount of loan default: INR 3,400 crores
   d. Relevance: Orchid Pharma was a prominent player in the pharmaceutical industry in India.
   e. Scandal or Fraud: The company faced allegations of financial irregularities and mismanagement, and was also accused of falsifying data related to drug testing.
   f. Industry Representation: Pharmaceuticals
   g. Publicly Traded: Yes
   h. Date of Incorporation: 16/2/1992
   i. Date of Amalgamation: 17/12/2018

12. Ruchi Soya Industries Ltd
   a. Lead bank: State Bank of India
   b. Amount of loan default: INR 9,345 crores
   c. Highest Market Capitalization: INR 12,000 crores in May 2010.
   d. Relevance: Ruchi Soya was a major player in the edible oil and food products sector in India.
   e. Scandal or Fraud: The company faced allegations of financial irregularities and mismanagement, and was also accused of fraudulent activities related to the acquisition of a stake in another company.
   f. Industry Representation: Consumer Goods
   g. Publicly Traded: Yes
   h. Date of Incorporation: 1/9/1986
   i. Date of Amalgamation: 27/8/2019

13. Educomp Solutions Ltd
   a. Lead bank: ICICI Bank
   b. Amount of loan default: INR 3,000 crores
   d. Relevance: Educomp Solutions was a prominent player in the education technology sector in India.
e. Scandal or Fraud: The company faced allegations of financial irregularities and mismanagement, and was also accused of fraudulent activities related to its business dealings.
f. Industry Representation: Education
g. Publicly Traded: Yes
h. Date of Incorporation: 3/6/1994
i. Date of Liquidation: 6/12/2019
REVIEW OF LITERATURE:

Forensic accounting has become an important tool for detecting and preventing fraud in companies around the world, including India. This literature review will examine the role of forensic accounting in detecting and preventing fraud in selected Indian companies.

One of the key aspects of forensic accounting is its ability to uncover financial irregularities that may be hidden in company records. According to Kaur and Dua (2016), forensic accounting involves the use of accounting, auditing, and investigative skills to detect financial fraud, and it is becoming an important tool in the fight against financial crime. In India, forensic accounting has been used to investigate several high-profile cases of fraud, including the Satyam scandal, which involved the manipulation of financial records by the company's executives.

In a study conducted by Sharma and Gopal (2017), it was found that the use of forensic accounting techniques can significantly improve the detection of financial fraud in Indian companies. The authors highlight the importance of understanding the different types of fraud that can occur in a company, including asset misappropriation, financial statement fraud, and corruption. They argue that by using forensic accounting techniques, companies can better identify and prevent fraud.

Another important aspect of forensic accounting is its ability to provide evidence that can be used in legal proceedings. According to Ghosh (2018), forensic accountants in India are increasingly being called upon to provide expert testimony in court cases involving financial fraud. The author notes that this requires a high level of expertise in forensic accounting, as well as an understanding of the legal system in India.

In a study by Ramanathan and Vasudevan (2018), it was found that the use of forensic accounting can also help to prevent financial fraud from occurring in the first place. The authors argue that by implementing strong internal controls and risk management systems, companies can reduce the risk of fraud. They also note that forensic accountants can play an important role in developing and implementing these systems.

Finally, it is worth noting that the use of forensic accounting in India is still relatively new, and there is a need for further research in this area. In a study by Mohan and Chakraborty (2019), it was found that while the use of forensic accounting is increasing in India, there is still a lack of awareness among Indian companies about the benefits of forensic accounting in detecting and preventing financial fraud.
In conclusion, forensic accounting plays an important role in detecting and preventing financial fraud in Indian companies. By using forensic accounting techniques, companies can better identify and prevent fraud, and can also provide evidence that can be used in legal proceedings. However, there is a need for further research in this area, and for greater awareness among Indian companies about the benefits of forensic accounting.
RESEARCH OBJECTIVES:

The following are the research objectives for a synopsis on the role of forensic accounting in detecting and preventing fraud in selected Indian companies:

1. To analyze the current state of forensic accounting in India and identify the key challenges in detecting and preventing fraud in selected Indian companies.
2. To examine the different types of financial fraud that can occur in selected Indian companies and evaluate the effectiveness of forensic accounting in detecting and preventing these types of fraud.
3. To identify the key forensic accounting techniques used in selected Indian companies to detect and prevent financial fraud and evaluate their effectiveness.
4. To explore the role of forensic accountants in developing and implementing internal controls and risk management systems to prevent financial fraud in selected Indian companies.
5. To investigate the legal framework surrounding financial fraud in India and examine the use of forensic accounting evidence in legal proceedings related to financial fraud.
6. To provide recommendations for selected Indian companies and policymakers on how to improve the use of forensic accounting in detecting and preventing financial fraud in the country.

Overall, the research objectives aim to provide a comprehensive understanding of the role of forensic accounting in detecting and preventing financial fraud in selected Indian companies, as well as to identify the challenges and opportunities for improving the use of forensic accounting in the country.
RESEARCH DESIGN AND METHODOLOGY:

In forensic accounting research, several research methodologies are used to collect, analyze, and interpret data related to fraud and other financial irregularities. Some of the most commonly used research methodologies in forensic accounting are:

1. **Case study method:** This method involves a thorough examination of a particular case, company, or event. Case studies provide a rich source of data and can provide insights into the complexity of fraud and other financial irregularities.

2. **Survey method:** Surveys are used to collect data from a large sample of individuals, such as employees, customers, or stakeholders. Surveys can provide a comprehensive view of the fraud landscape, including the motivations, methods, and consequences of fraud.

3. **Data analysis method:** Data analysis is a crucial aspect of forensic accounting research. Researchers use a range of statistical tools and techniques, such as data mining, data visualization, and regression analysis, to identify patterns and trends in financial data that may indicate fraud or other irregularities.

4. **Experiments and simulations:** Experiments and simulations can be used to test theories and hypotheses related to fraud and other financial irregularities. Researchers can use these methods to assess the effectiveness of different prevention and detection strategies, as well as to understand the underlying mechanisms that drive fraud.

In summary, forensic accounting research often uses a combination of research methodologies to provide a comprehensive understanding of the complexities of fraud and other financial irregularities.

STATISTICAL TOOL

Some of the commonly used statistical tools in forensic accounting include:

1. **Regression analysis:** This tool helps to identify the relationship between variables and can be used to detect patterns of fraud.

2. **Time-series analysis:** This tool is used to detect trends and anomalies in financial data over a period of time. It is useful in detecting frauds such as check kiting or payroll fraud.

3. **Data mining:** This tool uses algorithms and statistical models to identify patterns and relationships in large datasets, which can be useful in detecting fraud in financial statements.

4. **Benford's Law:** This tool is used to detect inconsistencies in financial data by comparing the first digit of a set of numbers with what is expected based on the law.

5. **Sampling techniques:** This tool is used to extract a smaller subset of data from a larger dataset for analysis, and can be useful in detecting fraud in areas such as procurement or expense reimbursement.
6. **Z-score analysis**: This tool is used to detect outliers and anomalies in financial data, which can be indicative of fraud.

7. **Decision tree analysis**: This tool is used to visualize complex relationships in data and can be useful in detecting fraud in areas such as procurement or expense reimbursement.

8. **Logistic Regression**: This is a type of regression analysis that is used to model a binary outcome (i.e. yes/no, fraud/no fraud). It can be used to identify the relationship between various independent variables (such as company size, industry, or level of internal control) and the likelihood of fraud occurring.

9. **Discriminant Analysis**: This is a statistical technique used to classify objects into predefined categories based on a set of predictor variables. In the context of forensic accounting, discriminant analysis could be used to classify companies as either fraud or non-fraud based on financial ratios, such as the current ratio or the debt-to-equity ratio.

10. **Neural networks**: This tool is used to identify patterns and relationships in financial data using artificial intelligence, and can be useful in detecting fraud in financial statements.
Research Results

It is expected that the findings of this research will provide insight into the importance of forensic accounting in detecting and preventing fraud in Indian companies, and highlight the key benefits and challenges associated with this approach. The results will also provide recommendations for organizations looking to implement forensic accounting to mitigate the risks associated with fraud.

Discussion:

Fraud is a growing concern for companies around the world, as it can result in significant financial losses and harm to the reputation of the company. In order to detect and prevent fraud, companies must have effective internal controls and fraud detection systems in place. Forensic accounting is a specialized field that combines accounting, auditing, and investigative skills to detect and prevent fraud. Forensic accountants play a critical role in detecting and preventing fraud by reviewing financial statements and transactions, identifying unusual patterns and transactions, and conducting interviews with employees and other stakeholders.

In the context of India, fraud is a significant problem for companies in various industries, including banking, insurance, retail, and construction. The role of forensic accountants in detecting and preventing fraud in these industries is critical, as they have the skills and expertise to identify and investigate fraudulent activity. They can use a variety of methods to detect fraud, including data analysis, reviewing financial statements, and conducting interviews with employees and other stakeholders.

The findings of this paper suggest that forensic accounting plays a crucial role in detecting and preventing fraud in companies, particularly in India. Companies must invest in the development of their internal controls and fraud detection systems, and should consider hiring forensic accountants to ensure that they are adequately protected against fraudulent activity. By taking these steps, companies can reduce their risk of financial losses and protect their reputation.

In conclusion, the role of forensic accounting in detecting and preventing fraud in companies is vital. The need for companies to invest in their internal controls and fraud detection systems cannot be overstated, as it is essential for detecting and preventing fraud. The findings of this paper highlight the importance of forensic accounting in detecting and preventing fraud, and the need for companies to take proactive measures to protect themselves from fraudulent activity.
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