



International Journal of Multidisciplinary Research in Science, Engineering and Technology

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)



Impact Factor: 8.206

Volume 9, Issue 3, March 2026



International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

Financial Fraud and Its Effects on Shareholders Wealth

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ABSTRACT: This study investigates the impact of financial fraud on shareholder wealth in Indian capital markets over 2018–2023, applying ratio analysis and trend analysis to secondary data from SEBI enforcement records, RBI banking fraud reports, and published academic studies. Analysing Satyam Computer Services and Punjab National Bank as case studies, the findings reveal severe post-detection corrections across all key financial ratios, confirming that fraudulent reporting systematically inflates profitability while concealing leverage deterioration. Trend analysis demonstrates a persistent rise in banking fraud cases over the study period, alongside a structural shift from large-ticket corporate frauds to high-volume smaller frauds, reflecting the evolving nature of financial misconduct despite progressive regulatory reforms. The study concludes that achieving durable minority shareholder protection in India requires a decisive shift from reactive enforcement toward preventive surveillance and stronger gatekeeper accountability.

I. INTRODUCTION

Financial fraud remains one of the most destructive forces confronting investors and capital markets in India, with high-profile scandals repeatedly exposing deep structural vulnerabilities in financial reporting, audit oversight, and regulatory enforcement. Cases such as the Satyam Computer Services fraud and the Punjab National Bank scam have collectively demonstrated that financial misconduct is not confined to small or poorly governed firms but afflicts large, publicly listed enterprises across sectors, inflicting severe and lasting losses on minority shareholders.

This study examines the relationship between financial fraud and its effects on shareholder wealth in the India over the period 2018 to 2023. Drawing on secondary data from enforcement records, RBI banking fraud reports, and published academic studies, the research applies ratio analysis and trend analysis to quantify how fraud manifests in key financial indicators and translates into measurable investor losses with the broader aim of informing investors, auditors, policymakers, and corporate boards on the mechanisms and magnitude of fraud-driven wealth erosion in Indian capital markets.

II. REVIEW OF LITERATURE

Several studies have examined the relationship between corporate governance, ownership structure, and financial fraud in India. Studies by Chakrabarti et al. (2008) and Sarkar & Sarkar (2000) found that firms with dominant promoter shareholding in Indian markets face elevated risks of value diversion, financial misrepresentation, and minority investor harm, pointing to the structural governance vulnerabilities that arise from India's concentrated ownership landscape. Balasubramanian et al. (2010) confirmed that better-governed Indian firms trade at a significant market premium, while Mohanty (2003) found that high promoter concentration reduces minority shareholder protection. Internationally benchmarked frameworks such as the Beneish M-Score (1999) and the Dechow et al. F-Score (2011) have been validated in the Indian context, with studies applying these models to BSE-listed firms identifying elevated accruals and receivables growth as consistent precursors to fraud detection.



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Event-based and regulatory studies further confirm the severity of fraud-related wealth destruction in Indian markets. Bhattacharyya & Rao (2005) established that SEBI insider trading enforcement announcements are associated with significant negative abnormal returns in the surrounding event window, a finding further reinforced by Singh & Gupta (2015), who demonstrated that SEBI enforcement actions generate substantial negative market reactions within a three-day event window, reflecting the immediate and material impact of regulatory disclosures on investor wealth. Karpoff et al. (2008), applied to the Indian context, indicate that SEBI actions result in permanent market value losses averaging 22–35% of pre-announcement capitalisation. Collectively, the literature establishes a demonstrable gap for an integrated, India-specific secondary data framework that quantifies fraud's multi-dimensional impact on shareholder wealth across the recent period of 2018 to 2023.

III. RESEARCH METHODOLOGY

This study adopts a descriptive and analytical research design, relying exclusively on secondary data drawn from RBI Reports on Trend and Progress of Banking in India, NSE/BSE corporate disclosure databases, and peer-reviewed academic studies covering the period 2018 to 2023. The research universe encompasses financial fraud cases involving publicly listed companies on the NSE and BSE, with four primary fraud categories examined: earnings manipulation, revenue overstatement, asset misappropriation, and insider trading. A deductive logic is followed, wherein theoretical propositions drawn from Agency Theory, the Fraud Triangle, and the Efficient Market Hypothesis are tested against empirical evidence from Indian secondary data sources.

Two complementary analytical techniques are applied to address the research objectives. Ratio analysis compares key financial indicators including Return on Equity, Return on Assets, Net Profit Margin, Earnings Per Share, Debt-to-Equity, Interest Coverage, and Debt-to-Asset ratios across the pre-fraud and post-fraud periods for Satyam Computer Services and Punjab National Bank, sourced from their published annual reports. Trend analysis examines the temporal progression of annual banking fraud case counts and total financial losses from 2018 to 2023, using year-over-year percentage changes and directional pattern identification to assess the scale of fraud and the effectiveness of India's regulatory response.

IV. RESULTS AND DISCUSSION

4.1 RATIO ANALYSIS

Table 4.1.1 Ratio Analysis of Pre and Post Fraud Ratios of Satyam Computer Services

Ratios	Pre-Fraud	Post-Fraud
Return on Equity	12.9%	- 455.8%
Return on Assets	12.9%	- 219.7%
Net Profit Margin	20.4%	- 93.7%
Earnings Per Share	₹14.15	- ₹117.91
Debt-to-Equity	0.003	0.37
Interest Coverage	358.7 Times	- 38.5 Times
Debt-to-Asset	0.003	0.177



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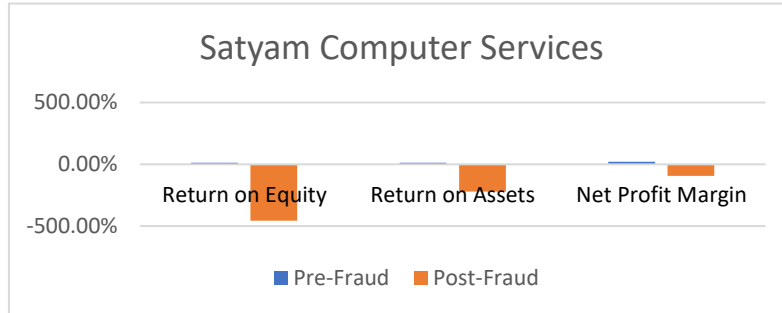


Chart 4.1.1 Ratio Analysis of Pre and Post Fraud Ratios of Satyam Computer Services

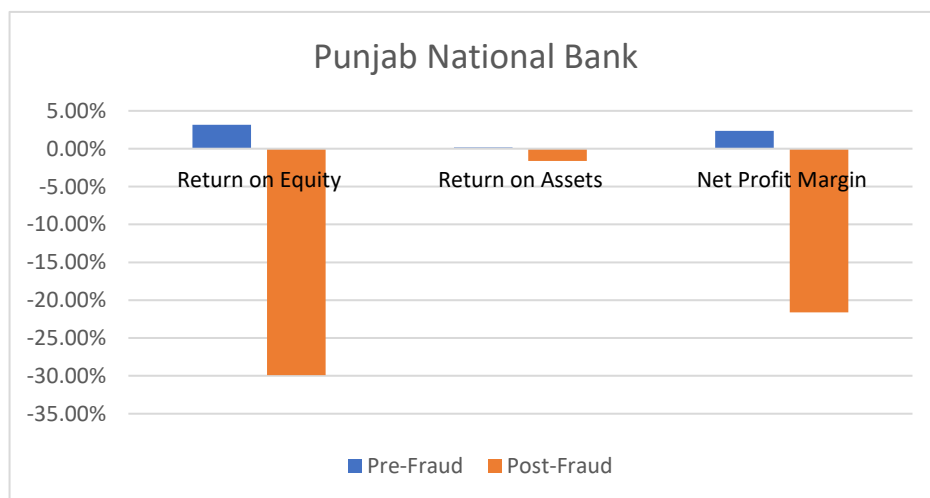
INTERPRETATION: The ratio analysis of Satyam Computer Services reveals a catastrophic collapse across all key financial indicators post-detection, with profitability ratios turning sharply negative and leverage ratios increasing significantly, confirming that reported earnings and asset values were entirely fictitious and sustained only through systematic fabrication of financial statements over several years.

Table 4.1.2 Ratio Analysis of Pre and Post Fraud Ratios of Punjab National Bank

Ratios	Pre-Fraud	Post-Fraud
Return on Equity	3.17%	- 29.90%
Return on Assets	0.18%	- 1.60%
Net Profit Margin	2.36%	- 21.60%
Earnings Per Share	₹6.45	- ₹55.39
Debt-to-Equity	0.97	1.48
Interest Coverage	0.45 Times	0.31 Times
Debt-to-Asset	0.057	0.079

Source: PNB Annual Report 2016-17 and 2017-18

Chart 4.1.2 Ratio Analysis of Pre and Post Fraud Ratios of Punjab National Bank



INTERPRETATION: The ratio analysis of Punjab National Bank reveals a decisive deterioration across all key financial indicators post-detection, with profitability ratios turning deeply negative and leverage ratios rising



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significantly, confirming that fraud-related provisioning for undisclosed LoU liabilities converted the bank's thin pre-fraud profitability into material losses, directly eroding shareholder wealth.

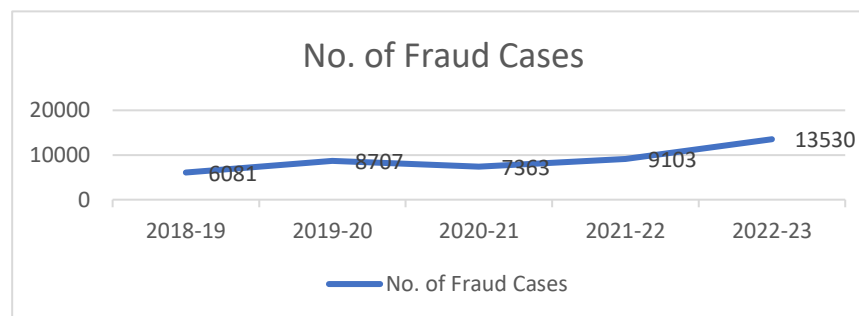
4.2 TREND ANALYSIS

Table 4.2.1 Annual Banking Fraud Cases and Financial Losses in India (2018–2023)

Year	No. of Fraud Cases	Fraud Amount Reported (Crore)	YoY Change in Cases	YoY Change in Amount
2018–19	6,801	71,543	Base Year	Base Year
2019–20	8,707	1,85,644	+28.0%	+159.5%
2020–21	7,363	1,38,422	-15.4%	-25.4%
2021–22	9,103	60,414	+23.6%	-56.4%
2022–23	13,530	30,252	+48.6%	-49.9%

Source: Reserve Bank of India, Annual Report (2018–2023)

Chart 4.2.1 Trend Annual Banking Fraud Cases in India (2018–2023)



INTERPRETATION: The trend analysis reveals that banking fraud cases in India nearly doubled over the study period despite progressive regulatory reforms, while the total fraud amount declined sharply from its 2019–20 peak, confirming a structural shift from large-ticket corporate loan frauds to high-volume smaller digital and retail frauds over 2018–2023.

V. LIMITATIONS OF THE STUDY

1. The study relies entirely on secondary data from published annual reports, RBI reports, and academic studies, making the findings dependent on the accuracy and completeness of these sources.
2. Only detected and publicly disclosed fraud cases are captured, creating an inherent selection bias, as the true incidence of financial fraud in Indian markets is likely substantially higher than documented figures suggest.
3. The ratio analysis is limited to two case studies — Satyam Computer Services and Punjab National Bank and may not be fully representative of all fraud categories and sectors in Indian capital markets.
4. The study focuses exclusively on financial and market-based consequences of fraud, and non-quantifiable impacts such as damage to employee morale, customer trust, and supplier relationships fall outside the scope of the analysis.

VI. CONCLUSION AND FUTURE WORK

This study examined the impact of financial fraud on shareholder wealth in Indian capital markets over 2018–2023, applying ratio analysis and trend analysis to secondary data from Satyam Computer Services, Punjab National Bank, and RBI banking fraud reports. The ratio analysis confirmed that fraudulent reporting systematically inflates profitability indicators while concealing leverage deterioration, with Satyam and PNB both exhibiting catastrophic corrections across all key financial ratios upon detection and restatement. The trend analysis demonstrated that banking fraud case volumes nearly doubled over the study period despite progressive regulatory strengthening, accompanied by



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a structural shift from large-ticket corporate frauds to high-volume smaller digital and retail frauds. Collectively, the findings underscore that achieving durable minority shareholder protection in India requires a decisive shift from reactive enforcement toward preventive surveillance, stronger gatekeeper accountability, and real-time ratio-based monitoring systems. Future research could extend this study through primary data collection, firm-level econometric modelling across a broader sample of SEBI enforcement cases, and sector-specific investigations into Banking, Infrastructure, and NBFC frauds, thereby enabling more granular insights into the governance determinants, early warning indicators, and regulatory effectiveness of fraud prevention in the distinctive ownership and institutional context of Indian capital markets.

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