VOL- XII ISSUE- II

FEBRUARY

2025

PEER REVIEW e-JOURNAL

IMPACT FACTOR 8.379 ISSN 2349-638x

Impact of Cash Flow Components on Profitability: A Comparative Empirical Study of Kotak Mahindra Bank and Indusind Bank":

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Abstract

This study aims to analyze the impact of cash flow components—Operating, Investing, and Financing activities—on the profitability of two major Indian private sector banks: Kotak Mahindra Bank and IndusInd Bank. Using secondary data from annual financial reports over a five-year period (2019-20 to 2023-24), this study employs statistical tools to assess the relationship between cash flow components and profitability metrics like Return on Assets (ROA), Return on Equity (ROE), and Net Profit Margin (NPM). The results are expected to provide valuable insights into financial management and policy implications for banks and stakeholders.

Key Words: Cash Flow Components, Operating Activities, Investing Activities, Financing Activities, ROA, ROE, NPM, Private Sector Banks, Profitability, Kotak Mahindra Bank, IndusInd Bank.

Introduction

ash flow analysis is vital for evaluating a company's financial health, particularly in the banking sector where liquidity and performance are closely linked. This study compares two top Indian private banks—Kotak Mahindra Bank and IndusInd Bank—to understand how different cash flow components influence profitability.

Objectives of the Study

- To analyze the cash flow trends of Kotak Mahindra Bank and IndusInd Bank over five years.
- 2. To examine the relationship between cash flow components (CFO, CFI, CFF) and profitability (ROA, ROE, NPM).
- 3. To compare the profitability performance of the two banks based on their cash flow structures.

Hypotheses of the Study

H₀1: There is no significant relationship between Cash Flow from Operating Activities and profitability (ROA, ROE, NPM).

H₀2: There is no significant relationship between Cash Flow from Investing Activities and profitability.

H₀3: There is no significant relationship between

Cash Flow from Financing Activities and profitability.

Ho4: There is no significant difference in profitability between Kotak Mahindra Bank and IndusInd Bank due to cash flow variations.

Statement of the Problem

In a volatile financial environment, banks need robust internal financial management to sustain profitability. This study investigates whether different cash flow components significantly influence the profitability of leading private banks in India.

Importance of the Study

Helps in understanding internal financial efficiency. It Supports stakeholders and policy makers in financial decision-making. It provides a comparative perspective to enhance best practices among banks.

Review of Literature

- 1. Deloof (2003) found that efficient working capital and cash flow management significantly influence corporate profitability.
- 2. Raheman and Nasr (2007) highlighted a strong relationship between liquidity, cash flow patterns, and firm performance.
- 3. Bhunia (2010) emphasized the role of operating cash flow as a major driver of profitability in Indian private banks.

- 4. Panigrahi (2013) explored liquidity trends in private banks, indicating fluctuating effects on ROA and ROE.
- 5. Sharma and Kumar (2011) showed that cash flow management practices vary across firms, impacting net profit margins differently.

Research Gap

1. Most previous studies focused broadly on working capital or liquidity but not specifically cash flow components.Limited research paper compares individual cash flow activities (CFO, CFI, CFF) with multiple profitability indicators like ROA, ROE, and NPM. There is a lack of comparative analysis between private sector banks in India, especially Kotak Mahindra and IndusInd Bank.Past studies often generalized results across industries without isolating the banking sector's unique cash flow behavior. Updated empirical studies post-pandemic (after 2020) are scarce, despite major cash flow changes in the banking sector.

Research Methodology: Type of Research :Quantitative and Analytical Research Data Collection Table

Particulars	Details					
Type of Data	Secondary Data					
Data Source	Annual Reports, Capitaline,					
	Moneycontrol					
Period of Study	2019-20 to 2023-24					
Sample Banks	Kotak Mahindra Bank, IndusInd					
	Bank					
Tools of Analysis	Correlation, ANOVA					

Variables of the Study

Type	Variables					
Independent Variables	- Cash Flow from Operating Activities (CFO) ,Cash Flow from Investing Activities (CFI) ,Cash Flow					
	from Financing Activities (CFF)					
Dependent Variables	-Return on Assets (ROA),Return on Equity (ROE) Net Profit Margin (NPM)					

Hypotheses

- 1. H₀ (Null Hypothesis): There is no significant relationship between cash flow components (such as net profit margin, operating profit margin) and profitability indicators (like EPS, ROE).
- 2. **H₁ (Alternative Hypothesis):** There is a significant relationship between cash flow components and profitability.

Kotak Mahindra Bank data sheet (cash flow statement)

	Y e a r	Net Profit /Loss Befor e Extra ordin ary Items and Tax (Rs. Cr.)	Net Cas h Flo w fro m Ope rati ng Acti viti es (Rs. Cr.)	Net Cas h Use d in Inv esti ng Act ivit ies (Rs . Cr.)	Net Cas h Use d fro m Fin anc ing Act iviti es (Rs. Cr.)	Forei gn Exch ange Gain s/Los ses (Rs. Cr.)	Net Increa se/Decr ease in Cash & Cash Equiva lents (Rs. Cr.)	Cas h & Cas h Equi vale nts at Begi nnin g of Yea r (Rs. Cr.)
	M a r- 2 4	18,01 3.72	13,9 00.7 9	2,0 21. 50	4,31 4.44	9.36	20,246. 09	32,5 42.3 1
9	M a r- 2 3	14,39 0.99	- 8,36 9.18	490 .86	- 2,54 1.91	38.59	- 10,381. 63	42,9 23.9 4
U	M a r- 2 2	8,572. 69	2,16 1.33	- 1,3 34. 92	2,45 6.07	14.92	3,297.4 0	39,6 26.5 3
	M a r- 2 1	6,964. 84	5,29 8.30	- 1,7 69. 10	- 6,58 5.90	- 12.47	- 13,665. 77	53,2 92.3 0
	M a r- 2 0	5,947. 18	30,1 59.4 3	7,4 54. 06	5,88 2.91	28.47	28,616. 76	24,6 75.5 4

Aayushi International Interdisciplinary Research Journal (AIIRJ)

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AOF- VII	1330E- 11	FEBRUARI	2025	e-JOURNAL	8.379	2349-638x

Kotak Mahindra bank (Profitability Ratio)					ts Beg	in					
Cash & Cash	Basic EPS	Net Profit	Operating	Re	of Year						
Equivalents at	(Rs.)	Margin	Profit	As	sectsa(sh) A i	ıÆ	1 1363 801	5 Marg ii	1 68) 274	56,327	16,003
End of Year		(%)	Margin (%)		Cash	(%	• <u>)</u> 61	.14	.49	.19	.65
(Rs. Cr.)					Equival	en					
52,788.40	69.15	30.09	38	2.2	9ts End (Of4	.24	4.32			
32,542.31	54.89	31.93	38.2	2.2	3Year	13	.17	4.39			
42,923.94	43.02	31.7	36.99	1.9	-	11		3.91			
39,626.53	35.17	25.94	33.48		₁ Indusla			at <u>i</u> o)			
53,292.30	30.88	22.08	31.51	1.6	5Operati		Cash	Inyesti	Financ	Cash	Cash

Indusland bank(Cash flow statement)

Mar-

Mar-

Mar-

Mar-

Mar-

Cash

Casii	iviai-	iviai-	IVIAI-	Wiai-	iviai-
Flow of	24	23	22	21	20
IndusInd			1:0		
Bank (in		//			
Rs. Cr.)			.0		
Net	11,941	0.950	6 172	2.794	6,120.
		9,859.	6,173.	3,784.	
Profit/Los	.53	65	65	15	61
s Before					
Extraordi					
nary					
Items					
And Tax					
Net Cash	_	10	16,600	44,645	_
Flow	16,843	12,437	.07	.59	12,038
		100	.07	.39	
From	.41	.62		\ \	.66
Operatin		3	<u> </u>		
g					
Activities					
Net Cash	-	-	-	-	-
Used In	632.76	520.22	361.56	233.25	399.59
Investing					
Activities					
Net Cash		1,114.			12,732
	2 2 4 1		4 202	4,095.	
Used	2,241.	83	4,302.	VI	.70
From	54		15	79	an,
Financing					
Activities					
Foreign	8.18	79.66	10.95	6.99	925.81
Exchange					
Gains /					
Losses					
Net	_	_	11,947	40,323	1,220.
Inc/Dec	19,709	11,763	.30	.54	25
In Cash	.53	.35	.50	.57	23
	.55	.55			
And Cash					
Equivalen					
ts					
Cash And	56,511	68,274	56,327	16,003	14,783
Cash	.14	.49	.19	.65	.40
Equivalen					
•	-	ailid'er s		1.0	••

6	_	1 Cash	Inyesti	Financ	Cash	Cash
	ng Cash	Flow	ng	ing	Flow	Conve
	Flow	to Debt	Activit	Activit	Marg	rsion
	Ratio	Ratio	y	y Ratio	in	Ratio
	PIP	2.	Ratio			
	-	7.5142	0.0375	0.1330	-	7.7965
	1.41049	13	67	81	1.410	02
					49	
	-	-	0.0418	1	-	-
	1.26147	11.156	26	0.0896	1.261	11.623
1811111111		5	13	3	47	2
	2.68885	-	-	-	2.688	-
	8	3.8585	0.0217	0.2591	858	3.7745
		5	8	6		1
4	11.7980	-	- 6	-	11.79	-
	5	10.900	0.0052	0 <mark>.</mark> 0917	805	10.843
		4	2	4		4
	-	-	0.0331	-	-	-
	1.96691	0.9454	92	1.0576	1.966	0.9768
		9		5	91	7

Prepare Data Sheet

structured data sheet for hypothesis testing:

_	34.45	307	01100	t for hypot	nesis te.	,	
-	Yea r	Basi c	Net Profit	Operati ng	Retu rn on	Retu rn on	Net Intere
		EPS	Marg	Profit	Asset	Equit	st
-	rno	(Rs.)	in (%)	Margin (%)	s (%)	y (%)	Marg in (X)
	Ma r- 24	115. 19	19.56	29.82	1.73	14.31	4.00
	Ma r- 23	95.3 2	20.31	28.68	1.61	13.60	3.84
	Ma r- 22	59.5 7	14.96	20.58	1.14	9.73	3.73
	Ma r- 21	38.7 5	9.78	14.12	0.78	6.58	3.72
	Ma r- 20	63.7	15.34	23.23	1.43	12.84	3.92

Results of Hypothesis Testing

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1. Correlation Analysis

The correlation matrix shows a strong positive correlation between:

- Net Profit Margin (%) and Basic EPS (Rs.): r=0.93r = 0.93r=0.93 (Very strong positive correlation)
- Operating Profit Margin (%) and Basic EPS (Rs.): r=0.96r = 0.96r=0.96 (Very strong positive correlation)
- Return on Assets (%) and Return on Equity (%): r=0.99r = 0.99r=0.99 (Extremely strong positive correlation)

The correlation matrix of Kotak Mahindra Bank

Variables	EPS	Net Profit Margi n (%)	Operatin g Profit Margin (%)	RO A (%)	ROE (%)
EPS	1.00 0	0.692	0.857	0.95 5	0.88
Net Profit Margin (%)	0.69	1.000	0.964	0.85 5	0.40 8
Operatin g Profit Margin (%)	0.85 7	0.964	1.000	0.96 0	0.62 7
ROA (%)	0.95 5	0.855	0.960	1.00 0	0.77 0
ROE (%)	0.88 2	0.408	0.627	0.77 0	1.00 0

- EPS & ROA (0.955) → Very Strong Positive Correlation
 - A high return on assets (ROA) is directly related to higher earnings per share (EPS).
 - This suggests that an efficient use of assets significantly improves shareholder value.
- EPS & Operating Profit Margin (0.857) → Strong Positive Correlation
 - Higher operating margins indicate better control of operational costs, leading to higher EPS.
 - This means that operating efficiency plays a vital role in improving earnings per share.
- EPS & ROE (0.882) → Strong Positive Correlation

- A high return on equity (ROE) means the company effectively utilizes shareholders' funds, resulting in higher EPS.
- Investors looking for high EPS should focus on companies with strong ROE.
- EPS & Net Profit Margin (0.692) → Moderate Positive Correlation
 - While higher net profit margins usually lead to higher EPS, the relationship is weaker than that of EPS with ROA or Operating Profit Margin.
 - This suggests that net profit margin alone does not drive EPS growth as significantly as asset efficiency or operational performance.

(b) Profitability Margins vs Other Indicators

- Net Profit Margin & Operating Profit Margin (0.964) → Very Strong Positive Correlation
 - A higher operating margin typically results in a higher net profit margin.
 - This suggests that controlling operating costs is a key driver of net profitability.
- Net Profit Margin & ROA (0.855) → Strong Positive Correlation
 - A higher net profit margin indicates better efficiency in utilizing assets.
 - Companies with higher net profit margins tend to have a more efficient asset utilization strategy.
- Net Profit Margin & ROE (0.408) → Weak Positive Correlation
 - The relationship between net profit margin and return on equity is weaker.
 - This suggests that profitability at the net level does not always translate into higher returns for shareholders.
- (c) Return on Assets (ROA) & Other Indicators
 - ROA & Operating Profit Margin (0.960)
 - → Very Strong Positive Correlation
 - Higher operating margins directly improve return on assets.

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 This implies that a company's asset efficiency is highly dependent on its operational profitability.

• ROA & ROE (0.770) → Moderate to Strong Positive Correlation

- A high ROA often leads to a higher ROE, but it is not a perfect relationship.
- This suggests that while asset utilization impacts shareholder returns, other factors (such as financial leverage) also play a role.

(d) Return on Equity (ROE) & Other Indicators

- ROE & EPS (0.882) → Strong Positive Correlation
- Higher ROE translates into higher earnings per share.
 - This confirms that shareholder returns are closely linked to the company's ability to generate profits.

• ROE & Net Profit Margin (0.408) → Weak Positive Correlation

- Net profit margins do not directly translate into higher ROE.
- This suggests that other factors, such as financial leverage, significantly impact shareholder returns.

ROE & Operating Profit Margin (0.627) → Moderate Positive Correlation

- A company's operating efficiency contributes to higher ROE, but the relationship is not as strong as that of ROA or EPS.
- This indicates that while profitability matters, shareholder returns depend on more than just operating performance.

4. Key Insights for Business Decision-Making

- ROA is the most crucial driver of EPS (0.955 correlation). This means that companies looking to improve EPS should focus on efficient asset utilization.
- Operating Profit Margin is a key factor influencing both ROA (0.960) and EPS (0.857). This suggests that improving operational efficiency directly benefits profitability and investor returns.
- Net Profit Margin has a weaker link to ROE (0.408), meaning that increasing net

- profits does not always lead to higher shareholder returns.
- ROE and EPS (0.882) are highly correlated, which confirms that companies with high returns on equity tend to have higher earnings per share, making them attractive for investors.

Step 3: ANOVA (Analysis of Variance)

ANOVA checks whether there are significant differences between the means of EPS for each year. This can tell us if EPS values differ significantly across years.

1. Variables for ANOVA:

The variable we want to analyze is **EPS** across the years (Mar-20 to Mar-24).

2. ANOVA Formula:

ANOVA tests the null hypothesis that all group means are equal:

 $H0:\mu1=\mu2=\mu3=\mu4=\mu5H$

Where each μ represents the mean EPS for each year.

The formula for the F-statistic is:

F=Between-group variance
Within-group variance

Interpretation:

If the **p-value** for the F-statistic is less than 0.05, reject the null hypothesis, indicating that there is a significant difference in EPS across the years.

ANOVA Results and Interpretation :ANOVA Formula

ANOVA compares the variance between groups (Kotak Mahindra and IndusInd Bank) with the variance within each group. The formula is:

F=Variance Between Groups

Variance Within Groups

Where: SSB (Sum of Squares Between Groups): Measures variation due to differences between the two banks.

SSW (Sum of Squares Within Groups): Measures variation within each bank over the years.

MSB (Mean Square Between Groups)}: MSB=<u>SSB</u>

dfB

MSW (Mean Square Within Groups)}: MSW=SSW

dfW

F-Statistic: F=<u>MSB</u> MSWF **Aayushi International Interdisciplinary Research Journal (AIIRJ)**

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Degrees of Freedom (df):

dfB=k-1 (where kis the number of groups, here 2)

dfW=N-k (where Nis total observations)

calculation of each metric

Compute ANOVA for CFO (Cash Flow from Operations)

Year	Kotak Mahindra (CFO)	IndusInd Bank (CFO)
2020	30,159.43	-12,038.66
2021	-5,298.30	44,645.59
2022	2,161.33	16,600.07
2023	-8,369.18	-12,437.62
2024	13,900.79	-16,843.41

=0.0339(attached in apendix)

After calculation it is observed that P-Value Lookup (from F-distribution table):

p-value ≈ 0.8586 (greater than 0.05)

Thus, we fail to reject the null hypothesis \rightarrow No significant difference in CFO between the two banks. Compare with the 0.05 significance level to determine if there is a difference.

Final Conclusion

Significant Differences (p < 0.05):

ROA → Kotak Mahindra Bank performs better.

NPM → Kotak Mahindra Bank has better profit margins.

No Significant Differences (p > 0.05):

CFO, CFI, CFF, Net Profit, ROE.

The following table presents the ANOVA F-statistics and p-values for the financial performance metrics comparing Kotak Mahindra Bank and IndusInd Bank.

Metric	F-	P-	Interpretation
	Statistic	Value	
CFO (Cash	0.0339	0.8586	No significant
Flow from			difference between the
Operations)			banks.
CFI (Cash	0.5358	0.4851	No significant
Flow from			difference between the
Investing)			banks.
CFF (Cash	0.0003	0.9875	No significant
Flow from			difference between the
Financing)			banks.
Net Profit	1.3590	0.2773	No significant
			difference between the

			banks.
ROA (Return on Assets)	9.7560	0.0142	Significant difference between the banks.
ROE (Return on Equity)	0.5111	0.4950	No significant difference between the banks.
NPM (Net Profit Margin)	21.2640	0.0017	Significant difference between the banks.

Intrepretation

ROA (Return on Assets) and NPM (Net Profit Margin) show significant differences between the two banks (p-values < 0.05). This indicates that the return on assets and profitability margins of Kotak Mahindra Bank and IndusInd Bank differ significantly over the years. Other variables, such as CFO, CFI, CFF, Net Profit, and ROE, have p-values greater than 0.05, suggesting that their variations between the banks are not statistically significant.

The null hypothesis (H₀: No significant difference) is rejected for ROA and NPM, meaning these financial metrics vary significantly between the banks.

For other metrics, we fail to reject H₀, indicating that they do not differ significantly.

Findings

- 1) The Basic EPS increased from ₹38.75 in 2021 to ₹115.19 in 2024, indicating significant earnings improvement over the period.
- 2) Volatility in Net Profit Margin (NPM): The NPM fluctuated between 9.78% (2021) and 20.31% (2023), ending at 19.56% in 2024, showing resilience but inconsistency in profitability.
- 3) Operating Profit Margin (OPM) Growth improved from 14.12% (2021) to 29.82% (2024), showing enhanced operational efficiency.
- 4) Return on Assets (ROA) Remains Low: ROA increased marginally from 0.78% (2021) to 1.73% (2024), indicating limited asset utilization efficiency.
- 5) Return on Equity (ROE) Improves: ROE surged from 6.58% in 2021 to 14.31% in 2024, reflecting stronger shareholder returns.

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- 6) Stable Net Interest Margin (NIM): The NIM remained between 3.72 and 4.00 over the five years, showing a stable core banking business.
- 7) Strongest Performance in 2024: Highest EPS (₹115.19), ROE (14.31%), and OPM (29.82%) in 2024 indicate overall business improvement.
- 8) 2021 Was the Weakest Year: Lowest EPS (₹38.75), NPM (9.78%), ROA (0.78%), and ROE (6.58%) in 2021 suggest pandemic-related financial struggles.
- 9) Gradual Recovery Post-2021: The bank recovered significantly post-pandemic, showing consistent improvement in profitability indicators.
- 10) Need for Better Asset Utilization: Despite profitability improvements, ROA remains below 2%, suggesting room for optimizing asset allocation.

Suggestions

- 1. Enhance Asset Efficiency: The bank should improve asset utilization strategies to increase ROA, focusing on high-yield assets and better loan management.
- 2. Diversify Revenue Streams: Increase noninterest income sources (e.g., fees, commissions, and wealth management) to reduce dependency on core lending activities.
- 3. Risk Management Strategies: Strengthen credit risk assessment and loan recovery measures to maintain stability in financial performance.
- 4. Digital and Technological Innovation: Invest in AI-driven banking solutions, digital payments, and fintech collaborations to improve operational efficiency and customer engagement.
- 5. Cost Control Measures: Reduce operational expenses and improve cost-to-income ratio to sustain long-term profitability growth.

Conclusion:

The financial performance of IndusInd Bank has shown significant improvements from 2021 to 2024, particularly in EPS, ROE, and OPM. However, ROA remains low, indicating inefficiencies in asset utilization. The bank's profitability has been volatile,

but the long-term trend is positive. To sustain growth, cost control, risk management, and diversification of income streams are essential strategies. The study concludes that Cash Flow from Operating Activities (CFO) plays a critical role in determining the profitability of Indian private sector banks. Among the two banks analyzed, Kotak Mahindra Bank demonstrated superior profitability and financial stability, backed by positive cash flows and efficient financial management. While IndusInd Bank experienced fluctuating cash flows, its profitability indicators show signs of gradual improvement.

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Apendix
Compute Means

X⁻Kotak=30,159.43+(-5,298.30)+2, 161.33+(-8,369.18)+13,900.79 5

=6,510.41

X⁻IndusInd=<u>-12,038.66+44,645.59+16,</u> 600.07+(-12,437.62)+(-16,843.41)

5

=3,985.99

 X^{-} Overall= <u>6,510.41+3,985.99</u>

2

=5.248.20

Compute Sum of Squares SSB=ngroup(X¯Kotak−X¯Overall)2+ ngroup(X¯IndusInd−X¯Overall)2 SSB=5(6,510.41−5,248.20)2+5(3,98 5.99−5,248.20)2

Aayushi International Interdisciplinary Research Journal (AIIRJ)						
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For Kotal (-5,298.30 59.43-6,5 9-6,510.4 =(-11,808 9.59)2+(7, =139,447,5 5+54,607,	SSB=5(1 (1,592,17 SSB=15, =31,843, dfB=2-1 MSB= <u>31</u> =31,843, pute SSW (With SSW=∑(1,00,000) K Mahindra: 10-6,510.41)2+(-8,36,000) 10.41)2+(-4,349,000) 10.41)2+(-4,349,000) 10.41,000) 10	,262.21)2+5(-174.28)+5(1,592,921,742.8+15,9485.6 =1 ,843,485.6 1485.6 thin-Group Variation (X-X ⁻) ² (2,161.33-6,510.69.18-6,510.41) (.08)2+(23,649.08+559,972,476-6)	2025 ,262.21)2=5 174.28) 21,742.8 ation): 0.41)2+(30,1)2+(13,900.7 (2)2+(-14,87 +221,488,15	For IndusIn (-12,038.66 ,600.07-3,9 43.41-3,985 =(-16,024.6 3.61)2+(-20 =256,788,99 521+433,83 SSW _{IndusInd} = =3,767,111,	IMPACT FACTOR 8.379 nd: 5-3,985.99)2+(44,645.59 85.99)2+(-12,437.62-3, 5.99)2 55)2+(40,659.60)2+(12,6 0,829.40)2 95+1,653,151,068+159,1 9,367 62,772,682,608 874 429,266 + 2,772,682,608 ,874 10-2=8 7,111,874 8	ISSN 2349-638x 2-3,985.99)2+(16 985.99)2+(-16,8 14.08)2+(-16,42 09,657+269,793,
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