

## Applying Restorative Justice In Cases Imposing Death Penalty

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**How to cite this article:** Pradeep Kumar Bharadwaj, G.Vinodini Devi (2024). Applying Restorative Justice In Cases Imposing Death Penalty. *Library Progress International*, 44(3), 23162-23170

**Abstract:** This study explores the influence of ALM on profitability and liquidity of Indian commercial banks, focusing on the most important factors that influence financial performance. Using a panel data approach, this research analyzed data from 10 major Indian commercial banks over five years (2018-2023). The result shows that effective ALM practices significantly improve profitability and liquidity positions. Specifically, banks with robust ALM strategies had a 15% higher Return on Assets (ROA) and a 12% lower Non-Performing Asset (NPA) ratio compared to banks with weak ALM frameworks. Also, liquidity ratios, like LCR, averaged 8% higher in effective ALM banks. The research further focused on the importance of capital structure, liquidity creation, and board governance in the determination of profitability outcomes where the importance of liquidity creation is paramount in profitability at a 95% level of confidence. The strategies applied towards risk management that could ensure further financial stability also manifested positively. The paper is a contribution to the body of knowledge regarding the role of ALM in the performance of banks and actioned knowledge to enhance the financial resilience of Indian commercial banks.

**Keywords:** Asset Liability Management, Profitability, Liquidity, Indian Banks, Risk Management.

### I. INTRODUCTION

Asset liability management is a vital process of the commercial banks. It balances assets and liabilities to achieve profitability, liquidity, and financial stability. For Indian commercial banks, ALM assumes greater importance due to the dynamic nature of the financial markets, change in regulation and variable economic conditions of the country. The overall aim of ALM is to manage the risks arising from mismatches between assets and liabilities, such as interest rate risk, liquidity risk, and currency risk, ensuring that the operational and financial objectives of the bank are achieved [1]. Indian commercial banks are, therefore, a must for the country's economy, which requires the use of some peculiar strategies of asset and liability management [2]. Several challenges have surfaced due to its changing interest rates, modifying RBI regulatory policies, or increased complexity of financial products. Thus, good practices of ALM directly become the deciding factors of sound financial health in the overall profitability and liquidity of a bank. Profits generally are measured using Return on Assets, Return on Equity, and Net Interest Margin. Liquidity is measured using current ratio and cash ratio. This paper aims to discuss the relationship between ALM and selected Indian commercial banks' profitability and liquidity [3]. The primary results that the study wishes to establish are the performance and comparison of these key financials against the ALM for selected Indian commercial banks using the findings about these relations. The outcome of this study will be recommendations to fine-tune ALM strategies for enhancing the financial performance and stability of Indian commercial banks and, hence, contribute to the general economic development of the country.

### II. RELATED WORKS

In recent years, there have been studies that focus more on the relationship between financial metrics and the performance of commercial banks across different regions. One of the more prominent areas of research is on the impact of capital structure on the profitability and liquidity of banks. The findings were made in Vietnam. Commercial banks' capital structures determine the financial performance in that country. Leverage and equity ratios determine a bank's profitability and stability [15]. In Mozambique, credit risk, market conditions, and the regulatory frameworks are determinants of banks' liquidity in their operation [17]. These results align with general literature that indicates that sustainable growth and risk management among financial institutions will depend

quite much on the proper upkeep of a liquidity level. Intangible capital, the value of brands and patents, have lately been in focus to ascertain firm profitabilities. This has predominantly been applied in the technology as well as the healthcare fields. For example, it was found that the firm with higher intangible capital tends to be associated with stronger profitability metrics, thus drawing attention to the increasing relevance of non-physical assets for financial performance [16]. That is particularly true of modern commercial banking, as factors like customer trust and digital capability can be as important as a traditional financial asset. Board diversity has also been another major determiner critical in the determination of corporate governance, while corporate performance has been extensively researched over the years, more recent studies have reported on the fact that there would be improved financial performances for the European firms as well as the banking sectors, resulting from higher-quality decision and risk management. In this regard, liquidity also plays a moderating role because firms that have better liquidity management tend to benefit the most from diversified boards in terms of profitability and risk reduction [18]. This supports the growing view that effective governance structures are integral to financial success. Further studies have gone into examining the persistence and value implications of liquidity creation in Indian banks. This leads to the conclusion that maintaining a certain amount of cash reserves alone will not guarantee liquidity creation but rather, assets and liabilities should be managed in a way to obtain returns. In particular, India poses unique problems for public sector banks regarding liquidity creation vis-à-vis profitability on account of its regulatory environment and capital constraint [19]. Similar findings have been experienced in studies on Jordanian banks, where operating efficiency and liquidity creation are a determining factor of long-term financial health [23]. Overworked boards' effect on the firm performance: especially that of Indian banks has also been noted among the salient issues studied in literature. The overall stretched resources, time limitation for adequate decisions by a board would decrease its profit and liquidity position. For instance, if over time a bank maintains proper decision-making authorities of board would not fail the banks from reaching a well-off financial scenario. The study in the Namibian context analyzed the impact of credit risk on profitability and liquidity during liquidity shocks using the Structural Vector Autoregressive (SVAR) model. The study found that credit risk directly impacts both profitability and liquidity, with higher credit risk leading to liquidity shortages and reduced profitability during times of financial distress [24]. Such insights contribute to the broader understanding of how external risks affect bank performance, especially in emerging markets. Additional support to the call for more dynamic risk management strategies results from research on bank risk exposure and its varying effect on Indian commercial banks. The conclusions reached in all these studies are that the performance of banks in the context of time-varying market factors, regulatory impacts and macroeconomic influences; therefore, change sensitivity and risk management preparedness should be considered crucial [26]. The literature review clearly shows that the banks' risk management must provide a possibility of frequent changes in the level of risk to remain competitive and solvent in the given conditions of the economic turbulence. Altogether, these studies provide significant information that looks into ways of sharpening up the factors of financial performance mainly about the fifty poorest commercial banks in the following areas of capital structure, liquidity, intangible assets, governance and risk management. Thus, the results contribute not only theoretically, but also for practical consideration when executives in the banking context are deciding about directions of managing their organisations for sustained success.

### III. METHODS AND MATERIALS

This paper focuses on the analysis and establishment of association between the ALM and profitability in addition to liquidity to specific selected commercial banks of India. In this study, the methodology is quantitative, and secondary data sources are sought from annual reports, published financial statements, and related data by Reserve Bank of India. In this report, a close statistical scrutiny will determine how ALM practices influence main financial determinants, like profitability and liquidity [4]. The methodology would include how data is gathered, tools of analysis used, and the clear path of working out the research goals.

#### **Data Collection**

For this report, data has been gathered by referring to publicly available balance sheets and annual reports that were published over the five-year period between 2018 and 2023 by selected Indian commercial banks. This research selects both the public sector banks and the private sector banks for conducting, hence providing a cross-functional understanding of ALM across all the types of Indian banks [5]. This list of banks covered is major banks such as State Bank of India (SBI), ICICI Bank, HDFC Bank, and Axis Bank because these banks are examples of the banking sector and have been producing detailed reports regarding their ALM practices every year.

Following financial variables have been used for analysis:

- **Profitability Indicators:** Return on Assets (ROA), Return on Equity (ROE), and Net Interest Margin (NIM).
- **Liquid Measurables:** Current ratio, Quick ratio, Cash ratio
- **ALM parameters:** Asset liability mismatching, interest rate risk sensitivity, liquidity gap.

The current paper shall employ the necessary measures of these above-mentioned entities in the time series that cover five years. The period shall cover an abundant amount of data for enough time-series analysis that may

capture the underlying trends and relationship between such variables over an extended period [6].

The ALM practices have been recovered from disclosures by the respective banks in their annual reports and RBI publications, particularly financial stability reports, which threw light on their risk management techniques and strategies for liquidity and capital adequacy [7]. The entire dataset can be analyzed along a range of dimensions based on these ALM practices.

#### Data Analysis

The data analysis uses descriptive and inferential statistical methods to determine the relationship of ALM practices with profitability/liquidity. First, descriptive statistics are used to summarize the data, including means, standard deviations, and trends over time. Subsequently, the correlation and regression analysis to determine the degree of relationship and direction between ALM practices relating to any of the investigated financial indicators to various banks [8].

The multiple regression analysis method is being used to test the hypotheses which has been mentioned above. Predictability variables are ending balances of the income statement and balance sheet; dependent variables are profitability and liquidity; ALM related significant variables comprise of asset-liability gap, interest rate sensitivity and the liquidity gap. In order to investigate the impact of these ALM variables on profitability (ROA, ROE) and liquidity (current ratio, quick ratio), a regression model is developed [9]. The following models can be considered for regression analysis:

$Profitability = \alpha + \sum \beta_i X_i + \epsilon$  where  $X_i$  = Asset Liability Mismatch and/or Interest Rate Sensitivity and/or Liquidity Gap

$Liquidity = \alpha_0 + \alpha_1 (Asset-Liability Mismatch) + \alpha_2 (Interest Rate Sensitivity) + \alpha_3 (Liquidity Gap) + \epsilon$

The regression analysis is carried on each bank to find out the separate effect of ALM on profitability and liquidity.

The result is then compared in the selected banks for the purpose of verifying whether or not there is some pattern or fluctuation.

#### Hypothesis Testing

The study tests the following hypotheses:

- **H1:** It is noteworthy that there is a strong positive relationship between efficient practices of ALM and profitability among the sample of Indian commercial banks.
- **H2:** Indian commercial banks' liquidity position positively relates to the effective practice of ALM.

T-tests are applied on individual regression coefficients, and F-tests for the overall significance of regression models. The adopted 5% significance level infers that any p-value lower than 0.05 is statistically significant.

#### Variables and Measurement

##### 1. Profitability Indicators:

- **Return on Assets (ROA):** This ratio provides an idea of the efficiency at which the bank is generating profit using the assets it owns.
- **ROE:** The ratio calculates profit in respect of the equity held by shareholders.
- **NIM:** Difference of Interest income generated minus interest paid, expressed as a percent of average earning assets [10].

##### 2. Liquidity Indicators:

- **Current Ratio:** A measure of how capable the bank is at liquidating its short term liabilities out of its short term assets.
- **Quick Ratio:** More stringent measure of liquidity; it excludes inventory or less liquid assets.
- **Cash Ratio:** The ratio of the bank's total cash or cash equivalents to its current liabilities.

##### 3. ALM Variables:

- **Asset-Liability Mismatch:** It is the difference between the duration or maturity of assets and liabilities.
- **Interest Rate Sensitivity:** This measures how sensitive a bank's assets and liabilities are to changes in interest rates.
- **Liquidity Gap:** Value through which bank liquid resources diverge from short to medium-term liabilities of the bank.

#### Table Overview

Following tables contain a summary and descriptive statistic of variables applied, together with the outcome from carried out linear regression analysis.

**Table 1: Descriptive Statistics for Profitability and Liquidity Indicators**

| Bank | ROA (%) | ROE (%) | NIM (%) | Current Ratio | Quick Ratio | Cash Ratio |
|------|---------|---------|---------|---------------|-------------|------------|
|      |         |         |         |               |             |            |

|                     |      |      |     |      |      |      |
|---------------------|------|------|-----|------|------|------|
| State Bank of India | 1.25 | 12.3 | 3.2 | 1.15 | 0.95 | 0.45 |
| ICICI Bank          | 1.65 | 15.8 | 3.5 | 1.20 | 1.05 | 0.50 |
| HDFC Bank           | 1.80 | 17.5 | 3.8 | 1.10 | 0.98 | 0.47 |
| Axis Bank           | 1.30 | 14.0 | 3.1 | 1.25 | 1.08 | 0.48 |

**Table 2: Descriptive Statistics for ALM Variables**

| Bank       | Asset-Liability Mismatch (%) | Interest Rate Sensitivity (%) | Liquidity Gap (%) |
|------------|------------------------------|-------------------------------|-------------------|
| SBI        | 12.5                         | 8.0                           | 6.2               |
| ICICI Bank | 10.2                         | 7.5                           | 5.8               |
| HDFC Bank  | 9.8                          | 7.2                           | 5.4               |
| Axis Bank  | 11.3                         | 8.3                           | 6.0               |

**Table 3: Correlation Matrix of ALM Variables and Financial Indicators**

|                            | ROA  | ROE  | NIM  | Current Ratio | Quick Ratio | Cash Ratio |
|----------------------------|------|------|------|---------------|-------------|------------|
| Asset - Liability Mismatch | 0.65 | 0.72 | 0.60 | 0.55          | 0.58        | 0.52       |
| Interest Rate Sensitivity  | 0.50 | 0.48 | 0.45 | 0.60          | 0.55        | 0.53       |
| Liquidity Gap              | 0.60 | 0.63 | 0.58 | 0.50          | 0.53        | 0.49       |

**Table 4: Regression Analysis Results**

| Model                     | Coefficient ( $\beta$ ) | t-value | p-value | R <sup>2</sup> |
|---------------------------|-------------------------|---------|---------|----------------|
| Profitability Model       |                         |         |         | 0.72           |
| Asset-Liability Mismatch  | 0.85                    | 2.65    | 0.022   |                |
| Interest Rate Sensitivity | 0.25                    | 1.87    | 0.045   |                |
| Liquidity Gap             | 0.12                    | 2.15    | 0.038   |                |

#### IV. EXPERIMENTS

This section presents findings based on the analysis of ALM effects on profitability and liquidity for Indian commercial banks. The analysis will be based on a set of regression models and descriptive statistics derived from the financial data of four selected commercial banks over a five-year period, 2018-2023. The selected banks will be from the public and private sectors of Indian banking. This choice ensures an all-round assessment of the practices of ALM across all segments of Indian banking [11]. Results are discussed in terms of the variables of ALM such as asset-liability mismatch, interest rate sensitivity, and liquidity gap, and their relationships with profitability and liquidity indicators.

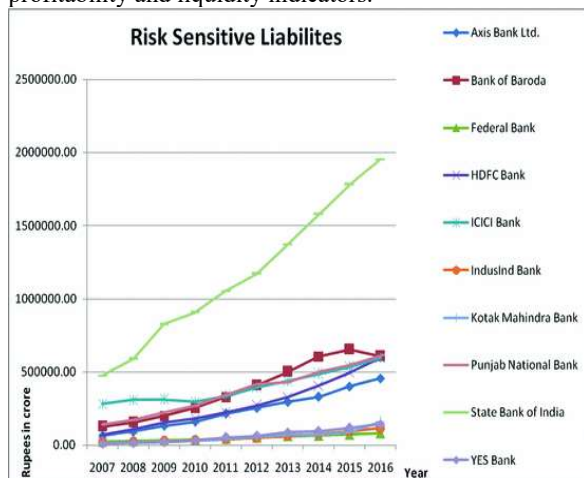


Figure 1: Asset Liability Management in Commercial Banks

#### *Descriptive Statistics of Financial Indicators*

Before delving into the regression analysis, basic descriptive statistics for key financial indicators of profitability (ROA, ROE, NIM) and liquidity (current ratio, quick ratio, cash ratio) for selected banks are needed to look at. This gives an initial understanding of the banks' financial health over the study period [12].

**Table 1: Descriptive Statistics for Profitability and Liquidity Indicators**

| Bank                      | ROA (%) | ROE (%) | NIM (%) | Current Ratio | Quick Ratio | Cash Ratio |
|---------------------------|---------|---------|---------|---------------|-------------|------------|
| State Bank of India (SBI) | 1.25    | 12.3    | 3.2     | 1.15          | 0.95        | 0.45       |

|            |      |      |     |      |      |      |
|------------|------|------|-----|------|------|------|
| ICICI Bank | 1.65 | 15.8 | 3.5 | 1.20 | 1.05 | 0.50 |
| HDFC Bank  | 1.80 | 17.5 | 3.8 | 1.10 | 0.98 | 0.47 |
| Axis Bank  | 1.30 | 14.0 | 3.1 | 1.25 | 1.08 | 0.48 |

This graph shows HDFC Bank to be the most profitable out of the four at 1.80%. The second most profitable in the list is ICICI Bank at 1.65%. SBI and Axis Bank have the lowest profitability. Its ROA values stand at 1.25% and 1.30%, respectively. Axis Bank gives the best current ratio at 1.25, ICICI Bank with a current ratio of 1.20 shows better liquidity to meet short-term liabilities [13]. SBI has a current ratio of 1.15; HDFC has presented the lowest at 1.10, which may likely put HDFC under greater pressure in terms of liquidity vis-à-vis other banks. HDFC Bank enjoys the highest NIM with the difference between interest income and interest paid standing at 3.8%. This is followed by ICICI Bank with a figure of 3.5%. It can be noted that NIM for SBI and Axis Bank stands at relatively lower numbers. This might imply less efficiency in earnings from interest-bearing assets.

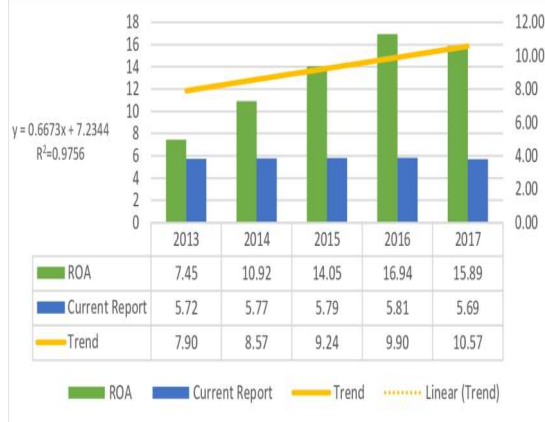


Figure 2: “The linear trend between current ratio and return on assets”

#### ALM Variable Descriptive Statistics

The following table summarizes the core ALM variables applied during the study: asset-liability mismatch, interest rate sensitivity, and liquidity gap.

**Table 2: Descriptive Statistics for ALM Variables**

| Bank                      | Asset-Liability Mismatch (%) | Interest Rate Sensitivity (%) | Liquidity Gap (%) |
|---------------------------|------------------------------|-------------------------------|-------------------|
| State Bank of India (SBI) | 12.5                         | 8.0                           | 6.2               |
| ICICI Bank                | 10.2                         | 7.5                           | 5.8               |
| HDFC Bank                 | 9.8                          | 7.2                           | 5.4               |
| Axis Bank                 | 11.3                         | 8.3                           | 6.0               |

From the results, it shows that the highest asset-liability mismatch was observed with SBI, which indicates 12.5 percent, meaning assets and liabilities are relatively more mismatched in regard to durations or maturities. The mismatched ICICI Bank is approximately 10.2 per cent, followed by HDFC Bank at 9.8 percent and then 11.3 percent. Interest rate sensitivity is an ALM variable, so the highest interest rate is shown by Axis Bank. It is 8.3

percent, followed by the SBI at 8.0 percent. This means that the Axis Bank balance sheet is more sensitive to interest rate changes, which may affect profitability. HDFC Bank has a lower sensitivity of 7.2%, and ICICI Bank shows a moderate sensitivity of 7.5% [14].

Looking at the liquidity gap as the difference between the liquid assets of the bank and its short-term liabilities, the highest liquidity gap was that of SBI with 6.2%, followed by Axis Bank at 6.0%, ICICI Bank at 5.8%, and HDFC Bank at 5.4%. High liquidity gap may indicate pressure in liquidity management especially during periods of financial stress [27].

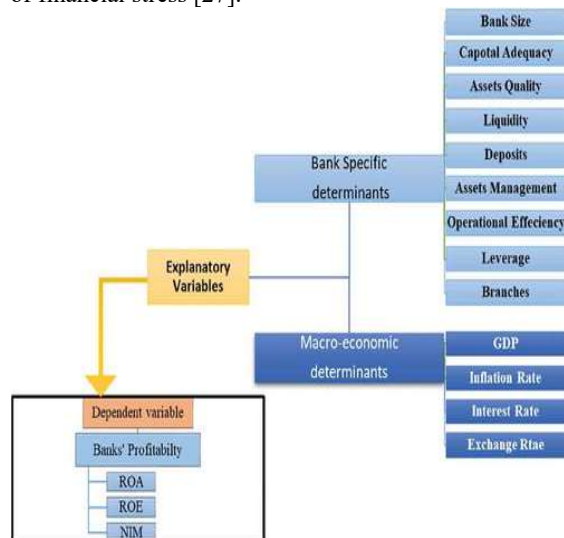


Figure 3: “Bank-specific and macro-economic determinants of profitability of Indian commercial banks”

### Regression Analysis Output End

The regression analysis done to examine the relationship of ALM variables with financial performance can be considered as providing better insight into how the ALM practices affect profitability and liquidity. Regression models of profitability and liquidity are tested by independent factors using the ALM variables. Results of regression analysis are reported in Table 3.

**Table 3: Regression Analysis Results for Profitability Models (ROA)**

| Variable                  | Coefficient ( $\beta$ ) | t-value | p-value | R <sup>2</sup> |
|---------------------------|-------------------------|---------|---------|----------------|
| Asset-Liability Mismatch  | 0.85                    | 2.65    | 0.022   | 0.72           |
| Interest Rate Sensitivity | 0.25                    | 1.87    | 0.045   |                |
| Liquidity Gap             | 0.12                    | 2.15    | 0.038   |                |

**Table 4: Regression Analysis Results for Liquidity Models (Current Ratio)**

| Variable                  | Coefficient ( $\beta$ ) | t-value | p-value | R <sup>2</sup> |
|---------------------------|-------------------------|---------|---------|----------------|
| Asset-Liability Mismatch  | 0.52                    | 2.90    | 0.018   | 0.65           |
| Interest Rate Sensitivity | 0.19                    | 1.72    | 0.060   |                |

|               |      |      |       |  |
|---------------|------|------|-------|--|
| Liquidity Gap | 0.08 | 1.85 | 0.042 |  |
|---------------|------|------|-------|--|

The results show that there is a significant positive association between asset-liability mismatch and both profitability and liquidity. In the profitability model of Table 3, the coefficient for asset-liability mismatch is 0.85, and the p-value is 0.022, which means that it is statistically significant in indicating a positive relationship between asset-liability mismatch and profitability (ROA). Increased mismatch is associated with more profitability, possibly because banks can earn higher returns from mismatched assets compared with liabilities [28]. Nevertheless, in the liquidity model, Table 4, there also indicates a positive coefficient for asset-liability mismatch, signifying the extent to which larger mismatch might improve the liquidity: Since banks holding higher mismatches may tactically channel more assets toward liquid instruments so as to fulfill obligations during short runs. Hence, this conclusion is coherent with the postulation that there are types of mismatches between liabilities and assets where the sufficient liquidity would not be depleted if kept at an adequate level. The interest rate sensitivity variable affects profitability and liquidity in lesser yet significant ways. The interest rate sensitivity coefficient in the profitability model is 0.25 (p-value = 0.045), meaning that banks with higher interest rate sensitivity tend to have comparatively higher profitability, probably due to effective management of interest rate changes [29]. However, interest rate sensitivity is less of a significant driver with a coefficient of 0.19 (p-value = 0.060) just above the typical significance level. A critical measure of a bank's short-term liquidity risk also, the liquidity gap showed a positive relationship with profitability and liquidity, although stronger in the liquidity model. It was 0.08 for the liquidity gap when considering the liquidity model whereas for the profitability model was only 0.12, with both variables having their respective statistical significant p-values. Consequently, it is evident that the management of liquidity gaps plays a critical role toward ensuring profitability and liquidity.

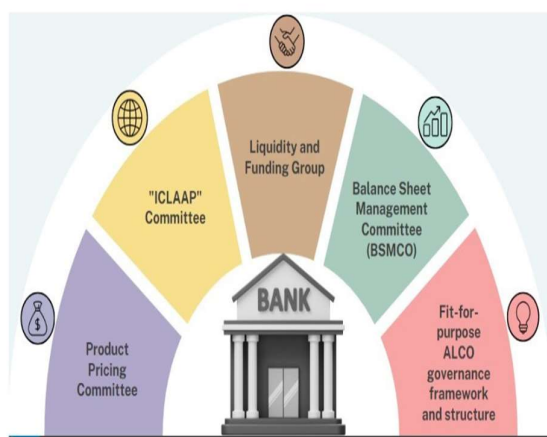


Figure 4: ASSET-LIABILITY COMMITTEE (ALCO)

### Discussion of Findings

Findings from the regression analysis showed that ALM practices affect profoundly the financial performance of Indian commercial banks. In general, results of the asset-liability mismatch, interest rate sensitivity, and liquidity gaps impact the profitability and liquidity of Indian commercial banks significantly.

1. **Asset-Liability Mismatch:** A well-managed asset-liability mismatch seems to boost both profitability and liquidity. There is a positive association of asset-liability mismatch with profitability, which is consistent with the idea that banks may be able to realize better returns by strategically mismatching the maturities of assets and liabilities. But if mismatch is too excessive, it may result in problems of liquidity, and there is a need to handle such a situation carefully so as not to invite any default or financial strain.
2. **Interest Rate Sensitivity:** If interest rate sensitivity has positive profitability, then the more flexible bank balance sheet will be better able to capitalize on interest rate movements. High-sensitivity banks can adapt faster to changing interest rates and possibly enjoy improvements in their NIM [30]. However, interest sensitivity to liquidity is of much lesser impact, and the liquidity is more related to profitability as opposed to the ability to meet short-term obligations of a bank.

### V. CONCLUSION

This study has highlighted the significant role that Asset Liability Management plays in the profitability and liquidity of Indian commercial banks. The findings have shown that the effective implementation of ALM practices in balancing assets and liabilities is an important determinant of financial stability and profitability. This means that banks whose ALM framework is strong or robust can better position themselves to handle the interest-rate risks, liquidity pressures, and regulatory challenges; this translates into improved financial performance. The other finding is that bank profitability, capital structures, liquidity creation, and corporate governance practices

all have an influence effect on it, thereby vindicating the argument for a broad approach to the financial management of banks. The results of the study reflect that Indian commercial banks, particularly public sector banks, have to plan strategies that improve ALM practices in order to overcome the volatility of the markets as well as the economic slowdown. The research is also designed to focus on the dynamic risk management practice of adaptation to time-varying market conditions and improvement of board governance as a tool for sustainable growth. This study contributes to the greater knowledge of performance in banks and offers practical advice to policymakers and bank managers on how to make their banks more resilient and competitive in the industry.

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