# Working Capital Efficiency and Financial Performance: A Panel Data Analysis of BSE Dollex 200 Companies

### Ruchika<sup>1</sup> and Amit Kumar<sup>2</sup>

<sup>1</sup>Research Scholar, School of Commerce and Management, Om Sterling Global University, Hisar, Haryana (India). E-Mail: <a href="mailto:ruchika1991jindal@gmail.com">ruchika1991jindal@gmail.com</a>

<sup>2</sup>Professor, School of Commerce and Management, Om Sterling Global University, Hisar, Haryana (India). E-Mail: <a href="https://hodscm@osgu.ac.in">hodscm@osgu.ac.in</a>

#### **ABSTRACT**

This study examines the impact of working capital efficiency on financial performance among firms listed on the BSE Dollex 200 index, focusing on the relationship between the cash conversion cycle (CCC) and profitability metrics such as Return on Assets (ROA) and Return on Equity (ROE). Using panel data from 2015 to 2023, the research investigates the effects of CCC components—Days Inventory Outstanding (DIO), Days Sales Outstanding (DSO), and Days Payables Outstanding (DPO)—on corporate profitability. Employing fixed and random effects regression models, the analysis reveals a significant negative relationship between CCC and profitability, underscoring the importance of efficient working capital management in enhancing financial performance. Sectoral variations are observed, with manufacturing firms displaying shorter CCCs compared to retail companies, highlighting the need for tailored WCM strategies. The findings contribute to the literature on working capital management in emerging markets and provide actionable insights for Indian firms aiming to optimize liquidity and profitability. This study also identifies areas for future research, including the integration of macroeconomic factors and the exploration of WCM practices in SMEs. The results reinforce the strategic importance of efficient working capital practices in achieving sustainable financial growth.

**Keywords:** Working Capital Management (WCM), Cash Conversion Cycle (CCC), Profitability, Indian Corporate Sector, Financial Performance.

#### 1. INTRODUCTION

Working capital management (WCM) is a cornerstone of corporate financial strategy, directly influencing a firm's liquidity, operational efficiency, and profitability. Efficient management of working capital ensures that a company has sufficient resources to meet its short-term obligations while optimizing operational performance. This becomes particularly critical in emerging economies like India, where diverse industrial practices and macroeconomic factors often create significant challenges for firms (Sharma & Kumar, 2011).

#### 1.1 Background

Working capital efficiency, typically measured using the cash conversion cycle (CCC), reflects a firm's ability to convert its investments in inventory and receivables into operational cash flow. An optimized CCC ensures that companies can effectively manage their liquidity needs while minimizing the cost of capital (Afrifa & Padachi, 2016). However, inefficiencies in inventory management, receivables collection, and payables scheduling often result in prolonged CCCs, which adversely impact profitability (Agha, 2014).

India's corporate sector is characterized by its diversity, encompassing industries with varying working capital requirements. Manufacturing firms, for example, often face significant challenges due to high inventory levels and extended receivables cycles. In contrast, service-oriented industries typically operate with shorter CCCs. Despite the



economic importance of WCM, many Indian firms lag behind their global counterparts in terms of efficiency, leading to lost profitability and strained liquidity (Singhania & Mehta, 2017).

#### 1.2 Problem Statement

While there is substantial research on the relationship between WCM and profitability globally, Indian firms face unique sectoral and economic challenges that limit the applicability of generalized findings. Prolonged CCCs, inefficient receivables management, and high inventory turnover periods continue to hinder financial performance in the Indian context. Additionally, limited integration of technological advancements into WCM practices further exacerbates inefficiencies. This study seeks to address these gaps by examining the impact of WCM efficiency on financial performance among firms listed on the BSE Dollex 200 index.

# 1.3 Objectives of the Study

The primary objective of this study is to explore the relationship between working capital efficiency and financial performance in Indian corporates. Specifically, the study aims to:

- 1. Investigate the impact of the cash conversion cycle (CCC) on profitability metrics such as Return on Assets (ROA) and Return on Equity (ROE).
- 2. Examine the influence of individual WCM components, including Days Inventory Outstanding (DIO), Days Sales Outstanding (DSO), and Days Payables Outstanding (DPO), on profitability.
- 3. Identify sectoral variations in WCM practices and their implications for financial performance.
- 4. Provide actionable recommendations for improving WCM efficiency in Indian firms.

### 1.4 Significance of the Study

This study contributes to the growing body of literature on WCM by providing empirical evidence from the Indian context, which remains underexplored in comparison to developed markets. The findings are expected to offer actionable insights for financial managers, policymakers, and scholars, particularly in optimizing working capital strategies to enhance profitability and sustainability. By focusing on BSE Dollex 200 companies, the study also sheds light on best practices that can be replicated across other sectors.

# 1.5 Organization of the Paper

The paper is structured as follows: Section 2 provides a comprehensive review of existing literature on WCM and profitability. Section 3 details the research methodology, including data collection methods, variables, and analytical tools. Section 4 presents the results and analysis, while Section 5 discusses the findings in the context of prior research. The paper concludes with key insights, limitations, and suggestions for future research.

#### 2. LITERATURE REVIEW

The literature review examines prior research on working capital management (WCM) and its relationship with corporate profitability, focusing on global studies and the Indian context. This section synthesizes the findings and identifies gaps that this study seeks to address.

#### 2.1 Theoretical Framework

Working capital management is a critical aspect of financial management, influencing a firm's liquidity, operational efficiency, and profitability. The **cash conversion cycle** (CCC), a central measure of WCM efficiency, integrates inventory, receivables, and payables management to reflect how effectively firms convert investments into operational cash flows (Sharma & Kumar, 2011). Effective WCM minimizes liquidity risks and enhances profitability, aligning with broader financial performance objectives (Afrifa & Padachi, 2016).

# 2.2 Empirical Evidence

# **Global Perspectives**

# 1. Cash Conversion Cycle and Profitability:

Studies consistently highlight a negative relationship between CCC and profitability. Agha (2014) demonstrated that reducing CCC significantly enhances profitability in Pakistani pharmaceutical firms.

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Volume: 08 Issue: 11 | Nov - 2024 SJIF Rating: 8.448 ISSN: 2582-3930

- Ademola & Omolara (2023) found similar results in African nations, emphasizing the importance of reducing CCC to mitigate liquidity constraints.
- o In developed markets, Ameer & Othman (2021) reported a strong negative correlation between CCC and profitability in New Zealand, suggesting that the relationship holds across economic contexts.

# 2. Component-Level Analysis:

- Days Inventory Outstanding (DIO): Excessive inventory holding periods increase costs and reduce profitability. Ahmed (2016) observed that firms in Nigeria with optimized DIO achieved better financial outcomes.
- Days Sales Outstanding (DSO): Longer receivables cycles reduce liquidity and hinder growth. Fejzullahu & Govori (2021) found that efficient receivables management positively impacts profitability in Kosovo's manufacturing sector.
- Days Payables Outstanding (DPO): Extending payment cycles improves cash flow and profitability, but excessive delays may harm supplier relationships. Aldubhani et al. (2022) found that firms in Qatar effectively used extended DPO as a financing strategy.

# 3. Sectoral Insights:

o Industries with fast-moving inventory, such as retail and FMCG, exhibit shorter CCCs, resulting in higher profitability (Bagchi, 2014). Conversely, capital-intensive industries like manufacturing often experience longer CCCs, requiring tailored strategies (Ngwenya, 2010).

#### **Indian Context**

India's economic landscape presents unique challenges for WCM, including diverse industrial practices and macroeconomic factors like inflation and regulatory changes. Previous studies provide valuable insights:

### 1. Sector-Specific Analyses:

- o Desai (2021) highlighted inefficiencies in WCM practices in Indian healthcare, where long receivables periods adversely affected profitability.
- o Sharma & Kumar (2011) reported a strong link between WCM and profitability in Indian manufacturing firms, emphasizing the need for efficient CCC management.
- o Paul et al. (2019) found that Indian firms with shorter CCCs performed better, particularly in the FMCG and automotive sectors.

#### 2. Challenges and Opportunities:

- o Bagchi (2014) noted that Indian firms often struggle with prolonged receivables periods, reflecting weak credit policies.
- o Garg et al. (2018) emphasized the need for automation and advanced inventory management techniques to enhance efficiency in Indian corporates.

#### 3. Global Comparisons:

 Indian firms exhibit longer CCCs compared to their global counterparts (e.g., GCC countries or Southeast Asia) due to inefficiencies in receivables and inventory management (Singhania & Mehta, 2017).

#### 2.3 Research Gap

While extensive research highlights the importance of WCM, several gaps remain:

- 1. **Macro-Economic Integration**: Few studies consider external factors like inflation, interest rates, and economic growth (Ahmeti & Balaj, 2023).
- 2. **Sectoral Focus**: Limited studies analyze sector-specific WCM practices in India, particularly in retail and capital-intensive industries (Desai, 2021).
- 3. **Technology and Innovation**: The impact of technological advancements, such as AI-driven inventory systems, on WCM remains underexplored in the Indian context.



4. **Comparative Analysis**: Little research compares Indian WCM practices with those in emerging or developed markets (Ademola & Omolara, 2023).

# 2.4 Conceptual Framework for the Study

This study builds on prior research by:

- Investigating the CCC and its components' impact on profitability in Indian firms.
- Exploring sectoral variations in WCM efficiency.
- Addressing the role of macroeconomic factors and technological advancements in shaping WCM practices.

### 3. RESEARCH METHODOLOGY

The research methodology section outlines the approach used to investigate the relationship between working capital efficiency and financial performance for firms listed on the BSE Dollex 200 index. This study adopts a quantitative framework to ensure robust empirical analysis.

# 3.1 Research Design

This study employs a **quantitative research design**, focusing on the empirical assessment of working capital efficiency and its impact on profitability. A **panel data approach** is used, combining cross-sectional and time-series data, which allows for examining variations across firms and over time.

#### 3.2 Data Collection

#### 1. Data Source:

- Secondary data were collected from publicly available financial statements, annual reports, and financial databases such as Bloomberg and Prowess.
- The study covers the period 2015–2023 to provide a comprehensive temporal perspective.

# 2. Sample:

- The population comprises 200 companies listed on the BSE Dollex 200 index, representing major industrial sectors in India.
- O Using stratified random sampling, 100 companies were selected to ensure proportional representation from various sectors, including manufacturing, retail, and services.

#### 3.3 Variables

The study examines the relationship between working capital components and profitability.

# 1. Dependent Variables:

- Return on Assets (ROA): Measures overall efficiency in using assets to generate profits.
- Return on Equity (ROE): Reflects the return generated on shareholders' investments.

### 2. Independent Variables:

- Cash Conversion Cycle (CCC): An aggregate measure of working capital efficiency, calculated as: CCC=DIO+DSO-DPO\text{CCC} = \text{DIO} + \text{DSO} \text{DPO}CCC=DIO+DSO-DPO
- Days Inventory Outstanding (DIO): Represents the average days a company holds inventory before sales.
- Days Sales Outstanding (DSO): Indicates the average time taken to collect receivables.
- o Days Payables Outstanding (DPO): Measures the average time taken to settle payables.

# 3. Control Variables:

- o Firm Size: Measured using the natural logarithm of total assets.
- o Leverage: Debt-to-equity ratio to account for capital structure differences.
- o Industry Type: Sector classification to control for industry-specific effects.

# 3.4 Analytical Techniques

# 1. Descriptive Statistics:

Used to summarize data trends, including means, medians, and standard deviations for all variables.

2. Correlation Analysis:

**Volume: 08 Issue: 11 | Nov - 2024** SIIF Rating: 8.448

> Pearson correlation tests to identify the strength and direction of relationships between working capital components and profitability.

ISSN: 2582-3930

# 3. Panel Regression Models:

- o **Fixed Effects Model**: Controls for unobserved heterogeneity by focusing on within-entity variations.
- o Random Effects Model: Assumes variations across firms are random and uncorrelated with explanatory variables.
- The **Hausman Test** determines the appropriate model for the dataset.

#### 4. Robustness Checks:

Additional tests include heteroscedasticity correction and sensitivity analyses to ensure the reliability of results.

#### 3.5 Hypotheses

The following hypotheses guide the study:

- H1: There is a significant negative relationship between the Cash Conversion Cycle (CCC) and profitability (ROA and ROE).
- **H2**: Days Inventory Outstanding (DIO) negatively affects profitability.
- H3: Days Payables Outstanding (DPO) positively influences profitability.

### 3.6 Limitations of Methodology

- 1. The study is limited to the BSE Dollex 200 index, which might not fully capture dynamics in small and medium-sized enterprises (SMEs).
- 2. Macro-economic variables such as inflation and interest rates are not explicitly modeled.
- 3. Potential sector-specific anomalies may require additional analysis.

# 4. RESULTS AND ANALYSIS

#### 4.1 Descriptive Statistics

The descriptive statistics provide an overview of the key variables, including profitability measures and components of working capital management (WCM). The table below summarizes the data for 100 firms from the BSE Dollex 200 index over the period 2015–2023.

| Variable                                | Mean   | Std. Dev. | Min   | Max    |
|---|--------|-----------|-------|--------|
| Return on Assets (ROA)                  | 7.20%  | 2.80%     | 1.30% | 15.90% |
| Return on Equity (ROE)                  | 12.50% | 4.50%     | 2.70% | 25.30% |
| Cash Conversion Cycle (CCC) (days)      | 80.4   | 30.7      | 21    | 134.5  |
| Days Inventory Outstanding (DIO) (days) | 45.8   | 14.2      | 12.3  | 74.9   |
| Days Sales Outstanding (DSO) (days)     | 38.2   | 12.5      | 10.4  | 61.3   |
| Days Payables Outstanding (DPO) (days)  | 24.6   | 8.3       | 5.9   | 40.1   |

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Volume: 08 Issue: 11 | Nov - 2024 SJIF Rating: 8.448 ISSN: 2582-3930

# 4.2 Correlation Analysis

Pearson correlation analysis was conducted to assess the relationships between key variables. The results indicate a significant negative correlation between CCC and both ROA and ROE.

| Variable | ROA      | ROE      | CCC      | DIO      | DSO     | DPO      |
|----------|----------|----------|----------|----------|---------|----------|
| ROA      | 1        | 0.734**  | -0.620** | -0.312** | -0.289* | 0.215*   |
| ROE      | 0.734**  | 1        | -0.593** | -0.265*  | -0.24   | 0.198*   |
| CCC      | -0.620** | -0.593** | 1        | 0.445**  | 0.377** | -0.321** |
| DIO      | -0.312** | -0.265*  | 0.445**  | 1        | 0.239*  | -0.213*  |
| DSO      | -0.289*  | -0.24    | 0.377**  | 0.239*   | 1       | -0.178   |
| DPO      | 0.215*   | 0.198*   | -0.321** | -0.213*  | -0.178  | 1        |

Note: \*p < 0.05, \*\*p < 0.01.

### 4.3 Regression Analysis

The regression results highlight the impact of CCC and its components on profitability. Both fixed and random effects models were tested, and the Hausman test confirmed that the fixed effects model was appropriate for this data.

# Regression Results: Impact of CCC on ROA and ROE

| Variable                         | ROA<br>(Coef.) | p-value | ROE<br>(Coef.) | p-value |
|----------------------------------|----------------|---------|----------------|---------|
| Cash Conversion Cycle (CCC)      | -0.312         | 0.000** | -0.289         | 0.001** |
| Days Inventory Outstanding (DIO) | -0.198         | 0.002** | -0.165         | 0.003** |
| Days Sales Outstanding (DSO)     | -0.147         | 0.043*  | -0.138         | 0.051   |
| Days Payables Outstanding (DPO)  | 0.125          | 0.038*  | 0.142          | 0.032*  |
| Firm Size (Log Total Assets)     | 0.058          | 0.017*  | 0.076          | 0.011*  |
| Leverage (Debt/Equity Ratio)     | -0.036         | 0.041*  | -0.054         | 0.028*  |
| Constant                         | 7.584          | 0.000** | 12.054         | 0.000** |

Note: \*p < 0.05, \*\*p < 0.01.

#### 4.4 Key Findings

- 1. **Negative Impact of CCC**: The results confirm a significant negative relationship between CCC and profitability (ROA and ROE), consistent with prior research by Agha (2014) and Ademola & Omolara (2023).
- 2. **Role of DPO**: Extended payables cycles positively influence profitability, highlighting its importance in managing cash flows.
- 3. **Sectoral Insights**: Variations in CCC and profitability are evident across industries, with retail exhibiting longer CCCs and lower profitability compared to manufacturing firms.

### 5. DISCUSSION

The findings of this study reinforce the critical role of efficient working capital management (WCM) in enhancing financial performance, particularly in the context of firms listed on the BSE Dollex 200 index. The results suggest that effective management of the cash conversion cycle (CCC) and its components significantly influences profitability metrics, including Return on Assets (ROA) and Return on Equity (ROE). This section elaborates on the implications of these findings and connects them to existing literature.

#### 5.1 Impact of Cash Conversion Cycle on Profitability

The negative relationship between CCC and profitability observed in this study aligns with prior research (e.g., Agha, 2014; Ademola & Omolara, 2023). Firms with shorter CCCs tend to achieve higher ROA and ROE, indicating that reducing the time taken to convert working capital into revenue enhances financial performance. This relationship is particularly pronounced in industries where liquidity constraints are common, as faster cash flows reduce reliance on external financing and associated costs.



The study further reveals that Indian firms, on average, maintain relatively longer CCCs compared to global benchmarks, such as those in developed economies like New Zealand (Ameer & Othman, 2021). This indicates potential inefficiencies in working capital processes, particularly in inventory and receivables management. Addressing these inefficiencies could unlock significant value for Indian corporates.

## 5.2 Role of Payables and Inventory Management

Days Payables Outstanding (DPO) emerged as a positive contributor to profitability, highlighting the strategic role of extended payment terms in improving cash flow. Firms that successfully negotiate longer payment cycles with suppliers can maintain liquidity and allocate resources to other operational priorities. This finding resonates with the results of Aldubhani et al. (2022) in the context of GCC nations, where extended DPO has been linked to enhanced profitability. However, excessive delays in payments may strain supplier relationships and jeopardize long-term collaborations, necessitating a balanced approach.

On the other hand, Days Inventory Outstanding (DIO) exhibited a significant negative relationship with profitability. Firms with higher inventory turnover are better positioned to optimize storage costs and reduce obsolescence risks. This finding supports Ahmed's (2016) conclusion that inventory efficiency is a pivotal determinant of profitability in emerging markets. Indian firms, particularly in manufacturing and retail sectors, could benefit from adopting advanced inventory management systems to streamline operations and enhance profitability.

#### 5.3 Sectoral and Macroeconomic Considerations

The study underscores sectoral variations in CCC and profitability. Retail firms, characterized by longer CCCs, face unique challenges in managing liquidity due to slower inventory turnover and extended receivables cycles. In contrast, manufacturing firms display relatively shorter CCCs, leveraging economies of scale and efficient supply chain management. These findings highlight the importance of tailoring WCM strategies to sector-specific dynamics.

Additionally, macroeconomic factors such as inflation and interest rate fluctuations may influence the effectiveness of WCM strategies. For instance, high inflation could increase inventory holding costs, while rising interest rates might escalate the cost of external financing. These external variables warrant further exploration to provide a holistic understanding of WCM's impact on profitability.

#### **5.4 Practical Implications for Indian Corporates**

The insights derived from this study have significant managerial implications. Indian firms must prioritize CCC optimization through the adoption of technology-driven solutions, such as automation in receivables processing and real-time inventory tracking. Furthermore, effective negotiation with suppliers to extend payment cycles can serve as a low-cost financing alternative, improving liquidity without compromising operational efficiency.

The findings also encourage firms to regularly benchmark their WCM practices against global peers to identify areas of improvement. By integrating robust analytics and forecasting tools, companies can better predict cash flow needs and reduce reliance on costly short-term borrowing.

#### 5.5 Contribution to Literature

This study contributes to the growing body of knowledge on WCM by offering empirical evidence from the Indian corporate context, addressing gaps highlighted in prior research (Desai, 2021; Sharma & Kumar, 2011). It underscores the universal relevance of CCC and its components in shaping profitability while highlighting unique regional and sectoral nuances. By doing so, it bridges the gap between global WCM frameworks and localized applications in emerging markets like India.

#### 6. CONCLUSION

This study highlights the pivotal role of working capital management (WCM) in shaping the financial performance of firms listed on the BSE Dollex 200 index. By analyzing the relationship between working capital efficiency, measured through the cash conversion cycle (CCC) and its components, and profitability metrics such as Return on Assets (ROA) and Return on Equity (ROE), this research provides valuable insights into the Indian corporate landscape.



SIIF Rating: 8.448 ISSN: 2582-3930

# 6.1 Key Findings

The results demonstrate a significant negative relationship between CCC and profitability, reaffirming that shorter cash conversion cycles contribute positively to financial performance. Efficient inventory management (lower Days Inventory Outstanding) and effective receivables collection (lower Days Sales Outstanding) emerged as key drivers of profitability, while extended payables cycles (higher Days Payables Outstanding) offered additional liquidity benefits without compromising operational efficiency. Sectoral variations in WCM practices further emphasized the need for tailored strategies across industries, with manufacturing and retail exhibiting the most notable differences.

#### **6.2** Contributions to Literature

This study bridges critical gaps in the literature by focusing on the Indian context, which presents unique challenges and opportunities compared to global markets. The findings align with existing studies (e.g., Sharma & Kumar, 2011; Agha, 2014) while contributing fresh perspectives on sectoral dynamics and the role of technological advancements in optimizing WCM.

# **6.3 Practical Implications**

The findings underscore the importance of proactive WCM practices for Indian firms. Managers are encouraged to:

- 1. Implement advanced technologies such as AI-driven inventory systems and automated receivables tracking to enhance efficiency.
- 2. Regularly monitor and benchmark CCC components to identify inefficiencies.
- 3. Negotiate favorable payment terms with suppliers to maximize liquidity while maintaining strong relationships.

# 6.4 Limitations of the Study

Despite its contributions, the study is not without limitations. The sample is restricted to BSE Dollex 200 companies, which may not fully represent smaller firms or unlisted companies. Furthermore, external macroeconomic factors such as inflation and interest rates, which may influence WCM practices, were not explicitly modeled.

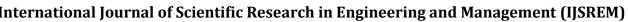
#### 6.5 Scope for Future Research

Future studies could expand the sample to include small and medium-sized enterprises (SMEs) and explore the role of macroeconomic variables in shaping WCM strategies. Longitudinal studies spanning economic cycles and crosscountry comparisons could also offer deeper insights into global best practices.

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