

# Challenges and Strategies for Improving Construction Management: A Review of Existing Literature

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**Abstract** - Construction management plays a crucial role in ensuring efficient and effective project delivery. However, the construction industry faces numerous challenges that can impact project outcomes, including skilled labor shortages, material shortages, project delays, cost overruns, safety concerns, and communication problems. This research paper explores the challenges facing construction management and suggests strategies to improve efficiency, productivity, and project success. The paper reviews existing literature on the topic and highlights the significance of implementing strategies such as improving communication, using project management software, and using prefabrication and modular construction. By implementing these strategies, construction managers can address challenges such as labor and material shortages, project delays, and cost overruns, ultimately leading to improved project outcomes.

Volume: 07 Issue: 04 | April - 2023

**Key Words:** construction management, challenges, skilled labor shortages, material shortages, project delays, cost overruns, safety concerns, communication, productivity, project success.

## 1.INTRODUCTION

The construction industry plays a vital role in the global economy, and successful construction management is essential to ensure efficient and effective project delivery. However, construction management can face numerous challenges, including a lack of skilled labor, material shortages, project delays, cost overruns, safety concerns, and communication problems. These challenges can have significant implications on project outcomes, including quality, timelines, and budget. This research paper will explore the challenges facing construction management and suggest strategies to improve efficiency, productivity, and project success.

### 2. OBJECTIVES OF STUDY

To explore the challenges facing construction management and suggest strategies to improve efficiency, productivity, and project success. The study aims to review existing literature on the topic and highlight the significance of implementing strategies such as improving communication, using project management software, and using prefabrication and modular construction to address challenges such as labor and material shortages, project delays, and cost overruns. Ultimately, the study seeks to provide insights that can help construction managers to improve project outcomes.

# 3. Background

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The construction industry is complex and involves the coordination of many stakeholders, materials, and resources. However, several challenges can impede construction management success. The shortage of skilled labor is one of the significant challenges facing construction management. With an aging workforce and a lack of interest in the younger generation, skilled labor availability is dwindling. This shortage of labor can cause project delays, cost overruns, and quality concerns.

ISSN: 2582-3930

Material shortages are another significant challenge in construction management. Supply chain disruptions and increased demand have caused significant price increases and delivery delays. These material shortages can lead to project delays, increased costs, and quality concerns.

Project delays are a common challenge in construction management, and they can occur for various reasons, such as labor and material shortages, weather conditions, or design changes. Delays can have a significant impact on the project timeline and budget, resulting in increased costs and reduced profitability.

Cost overruns are also a significant challenge in construction management. Cost overruns can arise from unforeseen expenses, scope changes, or project delays. These overruns can have a severe impact on project budgets and profitability, leading to reduced profit margins or even losses.

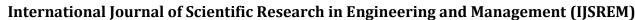
# **4.** Strategies For Improving Construction Management

Several strategies can be implemented to address the challenges facing construction management. Improving communication among stakeholders is a critical strategy that can ensure that everyone is on the same page, leading to smoother project flow.

Project management software can also be implemented to help track project progress, communicate with stakeholders, and identify potential problems before they arise.

Prefabrication and modular construction can be used to address labor and material shortages. Prefabrication and modular construction methods help to maximize labor and material usage, minimize waste, and increase productivity.

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**Impact Factor: 8.176** 

IJSREM e-Journal

Volume: 07 Issue: 04 | April - 2023

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ISSN: 2582-3930

#### 5. CONCLUSIONS

Construction management faces numerous challenges, including skilled labor shortages, material shortages, project delays, cost overruns, safety concerns, and communication problems. These challenges can significantly impact project outcomes, leading to increased costs, reduced profitability, and lower quality standards. However, implementing strategies such as improving communication, using project management software, and using prefabrication and modular construction can help address these challenges and improve efficiency, productivity, and project success. It is crucial for construction managers to proactively address these challenges to ensure the successful completion of construction projects. By doing so, they can not only improve project outcomes but also contribute to the growth and success of the construction industry as a whole.

#### ACKNOWLEDGEMENT

We are pleased to present this research paper on the challenges facing construction management titled "Strategies for Improving Construction Management". This paper was written as part of our research in the field of Construction Management, as a partial fulfillment of our Master's degree.

We would like to express our deep appreciation to our project mentor, Prof. Surbhi Chittora, for her invaluable support and guidance throughout the research process. Her expertise and encouragement were critical in helping us achieve our goals. Additionally, we are grateful to Prof. Asha Oak for their valuable insights and contributions to our work

We would like to acknowledge and thank all the individuals who have directly or indirectly contributed to the completion of this research paper. Their support and contribution have been instrumental in the success of this project.

### **REFERENCES**

- 1. Akash, D., & Dixit, M. (2021). Challenges and Opportunities in Construction Management: A Review. Journal of Infrastructure Development, 13(2), 1-18.
- 2. Fidan, M., & Kivanc, M. (2021). Challenges and Strategies for Construction Management. International Journal of Construction Research and Technology (IJCRT), 11(2), 36-46.
  3. Bhatia, S., & Thakur, S. (2019). Emerging Trends in Construction Management: A Review. International Journal of Innovative Technology and Exploring Engineering, 8(9), 1-6.
- 4. Karim, A., Islam, M. S., & Hossain, M. A. (2019). Challenges and Opportunities of Construction Management in Bangladesh: A Review. Journal of Civil Engineering and Architecture Research, 6(4), 85-93.
- 5. Suryanarayanan, S. (2018). Construction Management Challenges in India: An Overview. International Journal of Engineering and Advanced Technology, 8(2), 424-429.
- 6. National Institute of Construction Management and Research (NICMAR). (2021). Challenges in Construction Project Management.Reviewd from https://www.nicmar.ac.in/pdf/White%20Paper%20on%20Cha

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