

Best Practices In Construction Management: A Review of Literature

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Abstract- Construction management is a complex and multidisciplinary field that includes planning, design, procurement, construction and operation of various types of infrastructure projects. This research paper provides an overview of best practices in construction management based on a review of the literature published over the past decade. The paper identifies key principles and strategies used by construction managers to successfully deliver projects on time, within budget and to required quality standards.

I. INTRODUCTION

Construction management is a critical aspect of the built environment and plays an important role in shaping the physical and social infrastructure of our cities and towns. The success of any construction project depends on the effective management of resources, including labor, materials, equipment and finance. The construction industry has seen significant changes in recent years, including technological advances, changes in procurement models and increasing demand for sustainable and resilient infrastructure. These changes have led to the development of new and innovative construction management practices. Methods: This research paper uses a systematic review approach to identify best practices in construction management.

Methods:

The paper begins by conducting a comprehensive search of electronic databases, including Web of Science, Scopus and Google Scholar, using a combination of key words related to construction management. The search results are then screened against inclusion and exclusion criteria to identify relevant articles. Articles are analyzed using a content analysis approach to identify key themes and principles related to construction management.

Result: The literature review identified several key principles and strategies that construction managers use to successfully implement projects.

These include:

Effective Planning and Scheduling:

The construction manager must develop a detailed project plan and schedule that takes into account all the resources required for the project.

Risk Management: Construction managers must identify and manage potential risks to the project, including safety risks, environmental risks, and financial risks.

Effective communication: Construction managers must establish clear channels of communication between project stakeholders, including contractors, subcontractors, and clients.

Quality Management: The construction manager must ensure that the project meets the required quality standards and that any defects or problems are identified and resolved in a timely manner.

Cost Management: Construction managers must effectively manage the project budget and ensure that costs are controlled and monitored throughout the project.

II. CONCLUSION

Best practices in construction management are based on a combination of sound management principles, effective communication and the use of new and innovative technologies. The successful implementation of construction projects requires a holistic approach that takes into account all the resources required for the project, including labor, materials, equipment and finance. Construction managers must also be able to effectively manage risk and ensure that the project meets the required quality standards. The findings of this research paper can be used by construction managers to develop effective management strategies that can be applied to a variety of construction projects.

REFERENCES

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