

MATERIAL MANAGEMENT IN CONSTRUCTION – A CASE STUDY

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Abstract

The objective of the present study is to understand about all the problems occurring in the company because of improper application of material management. In construction project operation, often there is a project cost variance in terms of the material, equipments, manpower, subcontractor, overhead cost, and general condition. Material is the main component in construction projects. Therefore, if the material management is not properly managed it will create a project cost variance. Project cost can be controlled by taking corrective actions towards the cost variance. Therefore a methodology is used to diagnose and evaluate the procurement process involved in material management and launch a continuous improvement was developed and applied. A thorough study was carried out along with study of cases, surveys and interviews to professionals involved in this area. As a result, a methodology for diagnosis and improvement was proposed and tested in selected projects. The results obtained show that the main problem of procurement is related to schedule delays and lack of specified quality for the project. To prevent this situation it is often necessary to dedicate important resources like money, personnel, time, etc. To monitor and control the process. A great potential for improvement was detected if state of the art technologies such as, electronic mail, electronic data interchange (EDI), and analysis were applied to the procurement process. These helped to eliminate the root causes for many types of problems that were detected.

Keywords: Material Management, Construction

1. INTRODUCTION

Materials management is defined as a management system that is required in planning and controlling the quality & quantity of the material, punctual equipment placement, good price and the right quantity as required. Material management is a management system that integrates purchasing, shipping and material control from suppliers. Based on these definitions, generally materials management can be defined as a process of planning, executing, and controlling the right source of materials with the exact quality, at the right time and place suitable for minimum cost construction process. Capability to coordinate and integrate purchasing, shipping and material control from suppliers is required for material cost control. Three important phases that holds the key to a successful materials management are materials purchasing, materials usage, and storage. It is used to reduce the cost, which increases profitability and streamlines the production. Apart from management of material cost and its supply it helps in its proper utilization, transportation, storage, handling and distribution. Selection of personnel for marketing, purchasing, inventory control, stores management and materials handling and their training and placement is also to be seen by the materials management department. This indicates that it is very essential to have a materials management department in any organization to support the management in the production activities. It also helps in the marketing, sales promotion and control of all the types of materials for its quantity, quality and cost. Thus, the objective

of this paper is to clarify the roles and possibilities of material management in construction.

The present case study was done at Raviz hills. It was noticed that the materials are improperly procured and stored and there is a lack of inventory control and improper management. The finest details of procurement process was studied and an attempt has been made to meet the effective transportation system, proper inventory control and purchase can be done with technological measures and also, determines the profit and loss that occur under particular schedule based on the purchasing and inventory stores.

2. EXPERIMENTAL METHODOLOGIES

The experimental analysis consists of theories and practical consideration of the concepts. Therefore, the present work was classified as follows.

- 2.1 Analysis of site and management
- 2.2 Analysis on Inventory controlling
- 2.3 Analysis on purchasing procedures
- 2.4 Analysis on Procurement and Tracking
- 2.5 Analysis on costs

2.1 Analysis of Site and Management

The analysis was done to understand what are all the problems occurring in the company because of improper application of material management. The solutions that provided in this work

Material Management In Construction A Case Study

Len Holm



Material Management In Construction A Case Study:

The Management of Construction: A Project Lifecycle Approach F. Lawrence Bennett, 2007-06-01 Management of Construction introduces all aspects of management practice to students and professionals based in the construction industry. It is also important for those involved in allied fields such as design project development and site monitoring and inspection. The book addresses each stage of the construction project from conception to completion giving a perspective on the whole life cycle often missing from textbooks. The author also balances engineering concerns with the human resource and personal aspects of construction management that are so important to the successful outcome of a project.

101 Case Studies in Construction Management Len Holm, 2018-10-11 This book provides 101 real life construction management case studies from an author with over 40 years experience in the construction industry and as a lecturer in construction management. Over 14 chapters Len Holm has included case studies from real jobsites that cover organization procurement estimating scheduling subcontractors communications quality and cost control change orders claims and disputes safety and close outs. Other hot topics covered include BIM sustainability and lean. Each case is written in straightforward language and designed to test the reader's independent and critical thinking skills to develop their real world problem solving ability. The cases are open to interpretation and students will need to develop their own opinions of what's presented to them in order to reach a satisfactory solution. The cases are ideal for use in the classroom or flipped classroom for individual or group exercises and to encourage research writing and presenting skills in all manner of applied construction management situations. Such a broad and useful selection of cases studies cannot be found anywhere else. While there is often no right answer the author has provided model solutions to instructors through the online eResource.

Management of Construction Projects Brian Cooke, 2014-10-24 Construction Management is a wide ranging discipline but ultimately it is a demanding hands on discipline concerned with the management of people plant and materials all mobilised to complete a building project safely on time on budget and to the client's satisfaction. Management of Construction Projects is a highly illustrated series of case studies based on seven live construction management projects demonstrating the very practical nature of managing projects. The detailed case studies cover a variety of construction projects varying in value from 1 million to 117 million including a major inner city office block a portal framed factory unit a university refurbishment project a superstore car park and a new school building. The case studies emphasise detailed on site management procedures and identify a predominantly functional approach to managing projects. A number of related chapters covering practical and theoretical aspects of construction management support and illustrate the individual case studies. With a strong emphasis on the practical nature of the subject Management of Construction Projects is an ideal introduction to the subject for all students on construction and related degree and diploma programmes. It will be of particular interest to students preparing for the CIOB EPA programme and the new NVQ courses at level 4 and 5 in construction management.

Advances in Construction Materials and Management

Aneetha Vilventhan, Shamsheer Bahadur Singh, Venkata Santosh Kumar Delhi, 2023-07-30 This book presents the select papers from the proceedings of the National Conference on Advanced Construction Materials and Management ACMM 2022 The book discusses the ongoing research and advanced practices in building materials and construction project management Various topics covered in the book include new alternate supplementary construction materials deterioration mechanisms in construction materials microstructure characteristics of concrete special and recycled aggregate concretes advanced construction techniques contracts and arbitration building information modeling BIM prefabricated and modular construction augmented reality AR and virtual reality VR in construction management and artificial intelligence and machine learning in construction The book is a useful reference for researchers and professionals working in the fields of construction materials and management

CONSTRUCTION MANAGEMENT Ms. Suma Yarlagaadda, Mr. Satish Sajja ,

Dr.SS.Asadi, 2022-06-27 1 1 **OBJECTIVES** To determine the cost differences in materials utilized for conventional precast buildings as well as the proportion of materials wasted in the construction of commercial structure using precast conventional technologies To determine the time and cost differences in commercial building construction using conventional versus precast techniques

Collaboration and Integration in Construction, Engineering, Management and

Technology Syed M. Ahmed, Paul Hampton, Salman Azhar, Amelia D. Saul, 2020-12-21 This book gathers papers presented at the 11th International Conference on Construction in the 21st Century held in London in 2019 Bringing together a diverse group of government agencies academics professionals and students the book addresses issues related to construction safety innovative technologies lean and sustainable construction international construction improving quality and productivity and innovative materials in the construction industry In addition it highlights international collaborations between various disciplines in the areas of construction engineering management and technology The book demonstrates that as the industry moves forward in an ever complex global economy multi national collaboration is crucial and its future growth will undoubtedly depend on international teamwork and alliances

Construction Supply Chain Management Handbook William

J. O'Brien, Carlos T. Formoso, Vrijhoef Ruben, Kerry London, 2008-10-20 Mounting emphasis on construction supply chain management CSCM is due to both global sourcing of materials and a shortage of labor These factors force increasing amounts of value added work to be conducted off site deep in the supply chain Construction Supply Chain Management Handbook compiles in one comprehensive source an overview of the diverse research and examples of construction supply chain practice around the world Reflecting the emergence of CSCM as an important area of multi national research and practice this volume takes an interdisciplinary perspective with contributions from leading international authors in three major areas production and operations analysis organizational perspectives and information technology The book begins with a survey of the current literature on modeling construction supply chain production and describes a set of approaches and methods for designing and operating project supply chains with references to design and materials production It provides the

basic framework for understanding the challenges and approaches to representing and improving supply chain performance The next section recognizes the importance of considering arrangements between the different firms involved in designing procuring and assembling construction and reviews various perspectives to understanding and improving organizational issues in the supply chain The final section provides an overview of a range of information technologies that can contribute to supply chain performance as well as examples of effective use The organization and sourcing of materials is increasingly complex across the global construction industry Construction clients are demanding faster more responsive construction processes and higher quality facilities This volume provides an invaluable resource to understanding the implications of supply chain management which is sure to result in more effective construction project execution

Environmental Management in Construction Heng Li,Zhen Chen,2007-01-24 Demands on the construction industry are changing and it is now virtually essential for environmental management to be considered at all stages of a project Many construction managers are finding a quantitative approach useful and this book outlines four quantitative methods which can be applied at different construction stages and which fit within a comprehensive framework of dynamic Environmental Impact Assessment EIA These include a method to quantitatively evaluate and reduce pollution and hazards levels a method to evaluate the environmental consciousness of proposed construction plans a method to reduce on site construction wastes through an incentive reward programme a method to promote C and D waste exchange in the local construction industry With an experimental case study of the application of these methods this book delivers a comprehensive review of environmental management issues in construction With regulatory requirements potentially favouring the quantitative approach this timely guide ensures that contractors will be able to keep pace with environmental management standards

Material Management in Construction Site (case Study) Mohamad Azim Abd Malek,2009 Management of Construction Projects John Schaufelberger,Len Holm,2024-03-14 Unique among construction project management textbooks Management of Construction Projects third edition takes the constructor s perspective carefully analyzing a complex real world construction case study from multiple angles to demonstrate the skills knowledge and techniques students require to become successful project managers Popular as an undergraduate text and as a contractor resource the book identifies key stages of the project management process such as delivery methods and contracts estimating planning and scheduling preconstruction services subcontracting and material management documentation communications and payment controls quality and safety leadership and ethics and claims disputes and close out This third edition includes a novel case study a new chapter on preconstruction services updated contract forms and figures and additional student exercises and integrates use of project management technology Topics include building information models sustainable construction environmental compliance lean construction and off site construction Boxed examples or short case studies have been included with each chapter These examples correspond directly to the chapters in which they are included and give the reader an applied approach to learning

the concepts presented While primarily focused on the management of commercial projects the principles and techniques in Management of Construction Projects also apply to residential industrial and heavy construction Written in straightforward language from a constructor s perspective this textbook prepares upcoming construction project managers with everything they need to see a successful project through from start to finish **Managing IT in Construction/Managing**

Construction for Tomorrow Attila Dikbas,Esin Ergen,Heyecan Giritli,2009-09-15 Managing IT in Construction Managing Construction for Tomorrow presents new developments in Managing IT strategies Model based management tools including building information modeling Information and knowledge management Communication and collaboration Data acquisition and storage Visualization and simulation Architectural design and **Application of Mathematics and Optimization in**

Construction Project Management Hêriş Golpîra,2021-12-12 This book provides a broad overview of project and project management principles processes and success failure factors It also provides a state of the art of applications of the project management concepts especially in the field of construction projects based on the Project Management Body of Knowledge PMBOK The slate of geographically and professionally diverse authors illustrates project management as a multidisciplinary undertaking that integrates renewable and non renewable resources in a systematic process to achieve project goals The book describes assessment based on technical and operational goals and meeting schedules and budgets **Sustainable**

Ecological Engineering Design Lloyd Scott,Mohammad Dastbaz,Christopher Gorse,2020-06-29 Through research and proven practice the aim of the International Conference of Sustainable Ecological Engineering Design for Society SEEDS is to foster ideas on how to reduce negative impacts on the environment while providing for the health and well being of society The professions and fields of research required to ensure buildings meet user demands and provide healthy enclosures are many and diverse The SEEDS conference addresses the interdependence of people the built and natural environments and recognizes the interdisciplinary and international themes necessary to assemble the knowledge required for positive change

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this book has transformed the way we manage projects The cost control strategies risk management tips and procurement insights are invaluable The construction industry has undergone a remarkable transformation from the early centuries to the present day evolving in response to technological advancements economic shifts and societal needs From rudimentary structures built with primitive tools to modern skyscrapers incorporating cutting edge artificial intelligence and automation the industry s journey is a testament to human ingenuity and resilience In ancient times construction was primarily a labour intensive endeavour with civilisations such as the Egyptians Romans and Greeks developing architectural marvels that still stand today The pyramids of Egypt the Roman aqueducts and the Parthenon in Greece showcased early engineering brilliance achieved through skilled artisanry and innovative construction methods The Middle Ages saw the emergence of Gothic architecture characterised by intricate designs and towering cathedrals demonstrating advancements in engineering and materials The Renaissance period further refined construction techniques emphasising symmetry proportion and aesthetic appeal The Industrial Revolution of the 18th and 19th centuries marked a turning point in construction history The introduction of mechanisation steam power and new materials such as iron and steel revolutionised building methods Urbanisation and infrastructure development surged giving rise to railways bridges and modern cityscapes The 20th century witnessed unprecedented advancements including the advent of reinforced concrete prefabrication and skyscraper construction The post World War II era brought rapid urban expansion necessitating improved project management techniques and regulatory frameworks to ensure safety and efficiency In recent decades digital technology has reshaped the construction landscape Building Information Modelling BIM automation and artificial intelligence have streamlined project planning reducing costs and enhancing precision Sustainable construction practices have gained prominence addressing environmental concerns and promoting energy efficiency Looking ahead the next 25 years promise further innovation with artificial intelligence robotics and smart materials leading the way The integration of 3D printing drone technology and augmented reality is poised to revolutionise construction methodologies making them more efficient sustainable and adaptable to global challenges This book offers an in depth exploration of construction management providing insights into historical developments contemporary practices and future trends By understanding past achievements and embracing emerging technologies industry professionals can navigate the evolving landscape and contribute to a more innovative and sustainable built environment

Cost Accounting and Financial Management for Construction Project Managers Len Holm, 2018-09-03 Proper cost accounting and financial management are essential elements of any successful construction job and therefore make up essential skills for construction project managers and project engineers Many textbooks on the market focus on the theoretical principles of accounting and finance required for head office staff like the chief financial officer CFO of a construction firm This book s unique practical approach focuses on the activities of the construction management team including the project manager superintendent project engineer and jobsite cost engineers and cost

accountants In short this book provides a seamless connection between cost accounting and construction project management from the construction management practitioner s perspective Following a complete accounting cycle from the original estimate through cost controls to financial close out the book makes use of one commercial construction project case study throughout It covers key topics like financial statements ratios cost control earned value equipment depreciation cash flow and pay requests But unlike other texts this book also covers additional financial responsibilities such as cost estimates change orders and project close out Also included are more advanced accounting and financial topics such as supply chain management activity based accounting lean construction techniques taxes and the developer s pro forma Each chapter contains review questions and applied exercises and the book is supplemented with an eResource with instructor manual estimates and schedules further cases and figures from the book This textbook is ideal for use in all cost accounting and financial management classes on both undergraduate and graduate level construction management or construction engineering programs Construction Program Management - Decision Making and Optimization Techniques Ali D. Haidar,2015-09-12 Exploring complex and intelligent analytical and mathematical methods this book examines how different approaches can be used to optimize program management in the construction industry It presents an in depth study of the different program management methods ranging from simple decision making techniques and statistics analysis to the more complex linear programming and demonstrates how knowledge base systems and genetic algorithms can be used to optimize resources and meet time budget and quality criteria It addresses topics including decision making principles planning and scheduling mathematical forecasting models optimization techniques programming and artificial intelligence techniques Providing a valuable resource for anyone managing multiple projects in the construction industry this book is intended for civil and construction engineering students project managers construction managers and senior engineers Doctoral Research in Construction Management Zhen Chen,Heng Li,2023-02-17 Project Management for Environmental, Construction and Manufacturing Engineers Nolberto Munier,2012-08-16 As a companion to books on project management theory this book illustrates in a down to earth comprehensive style how to put that theory into practice In addition to the many examples that illustrate procedures the book includes over 25 case studies each one addressing a specific theme Key topics such as project selection negotiations planning and scheduling cost and budgeting project control human resources environmental impacts risk management and financial evaluation are discussed using a step by step approach Beginning at the grassroots level some cases are solved by hand to illustrate the mechanics of a procedure while others are solved using advanced computer programs In this way the reader has a clear idea of the problem how and when to raise the issue information needed and who can provide it how to solve it by hand when possible and also its resolution using the latest informatics tools **ICT Analysis and Applications** Simon Fong,Nilanjan Dey,Amit Joshi,2025-11-13 This book proposes new technologies and discusses future solutions for ICT design infrastructures as reflected in high quality papers presented

at the 10th International Conference on ICT for Sustainable Development ICT4SD 2025 held in Goa India on 17-19 July 2025. The book covers topics such as big data and data mining, data fusion, IoT, programming toolkits and frameworks, green communication systems and network use of ICT in smart cities, sensor networks and embedded system network and information security, wireless and optical networks, security, trust and privacy, routing and control protocols, cognitive radio and networks and natural language processing. Bringing together experts from different countries, the book explores a range of central issues from an international perspective. **Lean Construction**,

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