

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 those 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

**William J. O'Brien, Carlos T.
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Material Management in Construction Site (case Study) Mohamad Azim Abd Malek,2009 **CONSTRUCTION MANAGEMENT** Ms. Suma Yarlagadda, 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 dive **Doctoral Research in Construction Management** Zhen Chen,Heng Li,2023-02-17 *Applying BIM to Construction Material Management - A Case Study on Material Delivery & Lead Time Analysis* □□□,2014 *Transactions of the American Society of Civil Engineers* American Society of Civil Engineers,2004 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 Developments in Computer Aided Design and Modelling for Civil Engineering B. H. V. Topping,1995 Includes a selection of papers presented at the Sixth International Conference on Computing in Civil and Structural Engineering and the Fourth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering held at Cambridge England 28 30 August 1995 **A Case Study in Benefit-cost Analysis with Application to the California Water Project** Willard Thomas Price,1976 *Evaluation of Materials Management Strategies in the Nigerian Construction Industry - (A Case Study of Selected Buildings Sites in Lagos State.)*. K.A. Okorochoa,2016 This study on the Evaluation of Materials Management Strategies in the Nigerian Construction Industry Questionnaires were used to collect data from the construction participants Main factors of materials management were summarized into five basic independent variables X

namely materials planning x1 material procurement x2 material handling x3 material storage x4 and material usage x5 Six rating basic questions were asked and the numerical summation of the ratings formed the observed value for the independent variables in the case of that respondent The same was applied in the assessment of state of material management as applicable to construction industry in Nigeria Y which formed the dependent variable Multiple regression analysis was carried out on the data using E view package and SPSS package and the following relationship was established between the dependent and independent variables $Y = 1.084452539 + 0.5702062292x_1 + 0.114384169x_2 + 0.3604260282x_3 + 0.1852074864x_4 + 0.266328778x_5$ Testing the hypothesis using absolute value of T statistics and probability values show that among the factors studied only two of them planning x1 and handling x3 were statistically established as being critical to materials management in construction projects delivery in Nigeria Material planning and issuing system at sites should be automated in order to minimize human errors Storage of materials should only be maintained at minimal level in construction sites

Management and Methods in Concrete Highway Construction John Leman Harrison,1927 Application of Lean Principles to the Structural Steel Delivery and Erection Process Victor Jalil Daccarett Garcia,2004 **Marine Boiler Management and Construction** Johann Phillip Edmond Charles Stromeyer,1901 **Management of Small Construction Firms** Sivaguru Ganesan,1982 Comparison of small scale industry in the construction industry in Hong Kong Japan Philippines Singapore Sri Lanka and Thailand Discusses trends in housing policy building materials state aid choice of technology contracting joint ventures subcontracting training needs credit policy industrial policy etc *Metropolitan Management, Transportation and Planning* ,1913 Marine Boiler Management and Construction C. E. Stromeyer,1907 **Government Reports Announcements** ,1975 Time Study on Two-echelon Supply Chain for Steel Framing Costruction Chun-Nen Huang,2003 *Apercu Des Moyens de Formation Pour Le Développement Industriel* ,1988 **Civil Integrated Management (CIM) for Departments of Transportation** William J. O'Brien,2016 TRB s National Cooperative Highway Research Program NCHRP Report 831 Civil Integrated Management CIM for Departments of Transportation Volume 1 Guidebook presents guidance for collecting organizing and managing information in digital formats about a highway or other transportation construction project Volume 2 Research Report provides background material on collecting organizing and managing information in digital formats about a highway or other transportation construction project The term civil integrated management CIM has been adopted in recent years to encompass an assortment of practices and tools entailing collection organization and management of information in digital formats about highway or other transportation construction projects Transportation agencies may realize significant benefits from increased adoption of these practices which may be useful when managing an asset s initial planning phase through its in service maintenance

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