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CHAPTER ONE INTRODUCTION

1.1 BACKGROUND TO THE STUDY

The Nigerian building and construction industry continues tooccupy an important position in the nation's economy even though it contributesless than the manufacturing or other service industries, (Aibinu and Jagboro,2002). The contribution of the building and construction industry to nationaleconomic growth necessitates improved efficiency in the industry by means ofcost effectiveness and timeliness, and would certainly contribute to costsavings for the country as a whole. It is also common knowledge that theimplementation of the construction project in the industry is usuallyaccompanied with poor quality delivery and delivery time delay and costincrease as well as owner dissatisfaction (Hafez, 2001). Thus, the efficientuse and management of material have an importance influence on a company'sprofit and can delay project construction (Abdul- Rahman and Alidrisyi, 1993). Theresearchers will examine the impact of material management on project deliveryin Nigeria.

Material management is aplanned procedure that include, the purchasing, delivery, handling andminimization of waste with the aim of ensuring that requirement are met(Illingworth and Thain, 1998). According to Culvert (1998), adetailed material schedule and co-ordination of the requisition and order ofmaterial are important in assuring material availability. Efficient materialplanning is a key to high productivity on site. Material planning embracesquantifying, ordering and scheduling. Productivity will suffer ifthe material planning process is not executed properly (Kaming, Olomolaiye, Holt and Harris, 1997).

Kwik (1994) stated that anotherissue (which is sometime beyond management control) is material shortages, for example yearly cement shortages havelong been a topic of debate within the construction industry. Bell and Stukhart(1987) investigated a total concept for a Material Management System (MMS), which combined and integrated the take-off, vendor evaluation, purchasing expediting, and warehousing and distribution functions of material. The systemresulted in improved labour productivity, reduced material surplus, reducedmaterial management, manpower and cost saving. A1-Jibouri (2002) described

acomputer simulation model, which helps to solve the problem of order anddeliveries of materials in real life by keeping a predetermined list of orderand delivery time of all the materials on site. The delivery of each kind ofmaterial then takes place automatically at the specified time.

Ineffective materials managementfor projects can result in significant cost blow-outs and delays in projectcompletion. Such cost inefficiencies will negatively impact globalcompetitiveness, and owner operators and engineering, procurement, and construction companies are trying to streamline work processes for their projects. Inaccurate materials information, such as incorrect bills of materials, inaccurate cycle counts, shipping errors, receiving errors and soon, will also affect the overall project life cycle and increase project costs. Having to deal with subcontractors outside of the materials management processimpacts the overall project supply chain as there is an increased risk of datain consistencies.

Material managementis the system for planning and controlling to ensure that the right quality andquantity of materials and equipment are specified in a timely manner. Materials should be obtained at a reasonable cost, and be available for use when needed. The cost of materials represents a large proportion of the cost. A goodmanagement system for materials management will lead to benefits forconstruction. Cash flow has become crucial for the survival of any business, ifmaterials are purchased early, capital may be tied up and interest chargesincurred on the excess inventory of material. Material may deteriorate duringstorage or be stolen; also delays and extra expense may be incurred ifmaterials required for particular activities are not available.

Despite theimportance of the materials, very little research has been directed towardsunderstanding the management of materials from order to production; mostresearch is focused upon the management of the design and procurement processand on labour site productivity. Materials management, which includesprocurement, shop fabrication, logistics, supply chain management, productionon site, and field servicing, requires special attention to achieve costreduction. The supply chain is a convenient term used to describe a complex webof activities. The use of new equipment and innovative methods of materialshandling has influenced changes in construction technologies in recent years.

Modern methods ofmaterial management have been embraced by the manufacturers across a wide range of industry sectors outside of construction.

1.2 STATEMENT OF THE PROBLEM

Ogunlana and Proukumtong (1996) studiedconstruction delays in a fast growing economy: comparing Thailand with Nigeriaand some of the construction delays were attributed to material management: the study blames material shortage on site on unreliable supply from material suppliers occasioned by the general shortage in the industry, although therewere specific instances in which poor communication between sites and headoffice purchasing, planning and co-ordination could be cited. However, much research has not be done on material management and project delivery in Nigeriaconsidering the economic situation of Nigeria and the market full of substandard products. This study will therefore examine the impact of material management of project delivery in Nigeria in terms of quality and time.

1.3 OBJECTIVES OF THE STUDY

The following are the objectives of this study:

- 1. To examine the impact of material management on project delivery time in Nigeria.
- 2. To examine the impact of material management on project quality upon delivery in Nigeria.
- 3. Todetermine the advantages and disadvantages of material management in projectconstruction.

1.4 RESEARCH QUESTIONS

- 1. Whatis the impact of material management on project delivery time in Nigeria?
- 2. Whatis the impact of material management on project quality upon delivery inNigeria?
- 3. Whatare the advantages and disadvantages of material management in projectconstruction in Nigeria?

1.5 HYPOTHESIS

H_O:Material management does not affect project delivery in Nigeria

 H_{Δ} :Material management does affect project delivery in Nigeria

1.6 SIGNIFICANCE OF THE STUDY

This studywill be of importance to building professionals and the general public becauseit would not only clarify but also create awarenessof the extent to which inadequacies in material management can adversely affect project delivery. The study will also help

contractors, clients, consultants and all parties involved in construction projects about ways ofimproving their current method of material management. This research will also serve as a resource base to other scholars and researchers interested incarrying out further research in this field subsequently, if applied will go to an extent to provide new explanation to the topic.

1.7 SCOPE/LIMITATIONS OF THE STUDY

The scope of this study on impact of materialmanagement on project delivery in Nigeria will cover all the projectconstruction in Nigeria looking at their level of adoption of materialmanagement approach considering their successes with respect to project delivery quality and time.

LIMITATION OF STUDY

Financial constraint- Insufficient fund tends to impede theefficiency of the researcher in sourcing for the relevant materials, literatureor information and in the process of data collection (internet, questionnaireand interview).

Timeconstraint- The researcher will simultaneously engage in this study withother academic work. This consequently will cut down on the time devoted forthe research work.

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