

Design, Construction and Testing Of a Multipurpose Brick/Block Moulding Machine

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ABSTRACT : *The provision of shelter is one the most basic demand of a Man all over the World. It is one the most important challenges a man faces in his life. The problem of good shelter varies from place to place. A good shelter provides, first and foremost Security and Privacy. In the developed world the problem is less pronounced, but in the developing nation like Nigeria, the problem of shelter is more pronounced. There is about eighteen (18) million housing units' deficit in Nigeria. One of the most important materials used for building of a shelter is block/brick, but majority of the people cannot afford these materials (blocks or bricks) due high cost. Therefore, the production of high quality and affordable blocks/bricks is paramount to solving housing problems in developing countries especially in Nigeria. Thus, this research focused on design construction and testing of a multipurpose machine that produces high quality blocks/bricks for low cost housing. That is, for low income communities/earners. The constructed motorized compressive earth brick (CEB)/block making machine can produce on average a total of 2,215 bricks per day and 950 blocks per day. The cost of production of the machine was two hundred and eighty six thousand, eight hundred ninety (₦286,890.00) naira only. Whereas, the most common high-tech motorized CEB machine in Nigeria (Hydrafoam®) with an average capacity of about 3,000 bricks per day costs about six million naira (₦6,000,000.00K) only. Thus, the machine is very affordable for small scale enterprise (SME). In other words, bricks or blocks produced by using this machine are relatively cheap and affordable for those in the rural areas and for low income earners.*

KEY WORDS: *Compressive Earth Bricks (CEB), Bricks, Blocks.*

I. INTRODUCTION

It is an undisputed fact that shelter is one of the basic human necessities. However, irrespective of the importance of shelter, most people do not have access to good shelter, most especially in developing countries. In fact there is an estimated deficit of between 17 and 18 million housing units in Nigeria in 2012. [1]. The poor are most adversely affected by this housing shortage. The most important building materials for low-cost housing are blocks/bricks [2], but conventional quality concrete blocks are too expensive for low-income communities. Due to high cost of Portland cement, a lot of block producers use less than the recommended amount in the concrete mix making the blocks to be substandard. This is one of the most important contributing factors for the frequent building collapse in the country recently. Bricks / Blocks are solid pieces of hard substances, usually with flat sides, used as construction units [3]. They are sometimes referred to as masonry units (MU). Block and brick masonry are strong, fire-resistant, insect-proof building materials. They have a lot of thermal mass, which helps them retain heat and makes up for their relatively low insulation value. However, despite their similarities, block and brick have some major differences: Blocks are bigger in size as compared to bricks; blocks are usually made of concrete and hollow, while bricks, on the other hand, are smaller usually made of clay or other earthen materials and solid [4]. Compressed Earth Brick (CEB) is an alternative building material to concrete blocks which have been proved to be an excellent substitute. However, the full potential of CEB is yet to be utilized due to the fact that most of the commercially available machines that produce CEB are very expensive. The most common CEB machine (Hydrafoam®) is sold at about six million Naira. There are simpler and cheaper low income brick/block producing machines.

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Proceedings of the British Ceramic Society British Ceramic Society,1982 **Load-bearing Brickwork (7)** H. W. H. West,1982 *NBS Special Publication* ,1975 **British Ceramic Abstracts** ,1983 *An Index of U.S. Voluntary Engineering Standards. Supplement* William J. Slattery,1972 **An Index of U.S. Voluntary Engineering Standards, Supplement 2** William J. Slattery,1975 **Historical Building Construction: Design, Materials, and Technology (Second Edition)** Donald Friedman,2010 Winner of the Association for Preservation Technology APT 2012 Lee Nelson Book Award this book is an updated edition of the classic text detailing the ins and outs of old building construction A comprehensive guide to the physical construction of buildings from the 1840s to the present this study covers the history of concrete steel and skeleton frame buildings provides case histories that apply the information to a wide range of actual projects and supplies technical data essential to professionals who work with historic structures **Flying Magazine** ,1957-05 **Selected Water Resources Abstracts** ,1988 **An Index of U.S. Voluntary Engineering Standards, Supplement 1** William J. Slattery,1972 Chudley and Greeno's Building Construction Handbook Roy Chudley,Roger Greeno,Karl Kovac,2024-05-31 The 13th edition of Chudley and Greeno s Building Construction Handbook remains THE authoritative reference for all construction students and professionals The principles and processes of construction are explained with the concepts of design included where appropriate Extensive coverage of building construction practice techniques and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction This new edition has been updated to reflect recent changes to the Building Regulations as well as including new material on modern methods of construction greater emphasis on sustainability health and safety and coverage of heat pumps photovoltaics underfloor heating and rainwater harvesting Chudley and Greeno s Building Construction Handbook is the essential easy to use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National through to Higher National Certificate and Diploma to Foundation and three year degree level It is also a useful practical reference for building designers contractors and others engaged in the construction industry An Index of U.S. Voluntary Engineering Standards William J. Slattery,1972 **Commerce Today** ,1974-04 *Urban Transportation Abstracts* ,1982 **Structures in Architecture Education** Prabhjot Singh Sugga,2024-01-02 There has been a historical discord over curriculum and teaching practices for structures courses in architectural education as students are disinterested and not able to integrate learnings from such courses into their design solutions The research in the book Structures in Architecture Education Teaching and Integrating in Design involves the development of an assessment tool by a comparative analysis of past frameworks to understand integration that assesses three dimensions of integration of structures performance physical and visual against three building systems exterior interior and services Around 27 30 samples are selected for each year from first to fourth from three

institutions Data for pedagogy and curriculum are also collected that is used to analyse the results from assessment of samples In the second part of this book structural equation modelling is used to analyse if the studio is the preferred mode of learning structures

Advances on Testing and Experimentation in Civil Engineering Carlos Chastre, José Neves, Diogo Ribeiro, Maria Graça Neves, Paulina Faria, 2023-03-28 This book presents the most recent advances on testing and experimentation in civil engineering especially in the branches of materials structures and buildings complementing the authors publication Advances on Testing and Experimentation in Civil Engineering Geotechnics Transportation Hydraulics and Natural Resources It includes advances in physical modelling monitoring techniques data acquisition and analysis and provides an invaluable contribution to the installation of new civil engineering experimental facilities The first part of the book covers the latest advances in the testing and experimentation of key domains of materials such as bio cementation and self healing durability and recycled materials as well as the new environmental requirements related to the presence of hazardous substances in construction materials Furthermore laboratory and in situ tests together with equipment needed to estimate the behaviour and durability of construction materials are presented updating the most important technological advances The second part of the book highlights the relevance of testing and monitoring in structures including in situ tests related to static load tests dynamic tests and long term monitoring strategies as well as laboratory tests of adhesive joints Experimental tests on shake tables and blast resistant structures are also described Recent applications of drone technologies for the inspection and monitoring of civil structures are another important theme developed Finally in its third part the book presents new developments in the characterisation of building testing with the support of modelling to assess building pathology and new requirements acoustic comfort fire safety visual comfort and energy consumption **ISI**

Bulletin ,1966-06 Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I July 2005 ,

The American Steam Locomotive in the Twentieth Century Tom Morrison, 2018-07-24 Between 1900 and 1950 Americans built the most powerful steam locomotives of all time enormous engines that powered a colossal industry They were deceptively simple machines yet the more their technology was studied the more obscure it became Despite immense and sustained engineering efforts steam locomotives remained grossly inefficient in their use of increasingly costly fuel and labor In the end they baffled their masters and as soon as diesel electric technology provided an alternative steam locomotives disappeared from American railroads Drawing on the work of eminent engineers and railroad managers of the day this lavishly illustrated history chronicles the challenges triumphs and failures of American steam locomotive development and operation Building Construction Handbook Roy Chudley, Roger Greeno, 2016-04-14 Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The Building Construction Handbook is THE authoritative reference for all construction students and professionals Its detailed drawings clearly illustrate the construction of building elements and have been an invaluable

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