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**TECHNICAL REPORT ON  
STUDENTS INDUSTRIAL WORK  
EXPERIENCE SCHEME (SIWES)**

**THE REPORT BASED ON THE  
EXPERIENCE GAINED AT DANGOTE CEMENT  
COMPANY LIMITED PLC**

**BY**

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## **DEDICATION**

This report of student industrial work experience scheme(SIWES) is dedicated to the almighty God who is my source and knowledge. May His Holy name be glorified forever.

## **ACKNOWLEDGEMENT**

I thank God Almighty all glory, honour and adoration for mercy received during the course of my study and when undergoing my Industrial Training.

My appreciation also goes to my industrial based lecturer, whose accessibility, untiring effort, patients and guidance and suggestions fabulously contributed to the completion of this report, may God continue to guide and protect them and their family.

Mostly, my appreciation goes to the General Manager for accepting me into the organization and support. May God be with him and his household.

## **REPORT OVERVIEW**

**This report was compiled from the activities carried out and experience gained during my 12 weeks industrial training undertaken at DANGOTE CEMENT COMPANY LIMITED PLC.**

**This report discusses the actual work done and practical skills gained during the training period and justifying the relevance of scheme in equipping students with needed practical and technical competence to thrive in the real world .**

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# **CHAPTER ONE**

## **1.0 INTRODUCTION**

In October 1971, the federal government established the Industrial Training Fund (ITF). In its policy • statement No 1 published in 1973, a clause was inserted dealing with the issue of practical skills among the locally trained professional in tertiary institutions especially the University of Technology, Monotechnic, Polytechnics, Colleges of Educations and Technical Colleges. Section 15 Of the policy statement states clearly that "Great emphasis will be placed on assisting certain products of the post-secondary school system to adapt or orientate easily to their possible post-graduation job environments", subsequently leading to the launch of a scheme known as the Student's Industrial Work Experience Scheme (SIWES).

## **1.1 BACKGROUND**

The Industrial Training fund established by decree 43 was introduced in 1971, vis-à-vis the birth of the Students Industrial Work Experience Scheme (SIWES) the same year by the Federal Government of Nigeria (FGN). It is against this background that the industrial training fund (ITF) initiated, designed and introduced SIWES Scheme in 1973 to acquaint students with the skills of handling employers equipment and machinery.

The Industrial Training Fund (ITF) solely funded the scheme during its formative years. However, due to financial constraints, the fund withdrew from the scheme in 1978. The Federal Government, noting the significance of the skills training, handed the management of the scheme to both the National Universities Commission (NUC), and the National Board for Technical Education (NBTE) in 1979. The management and implementation of the scheme was however, reverted to the IT by the Federal Government in November, 1984 and the administration was effectively taken over by the industrial training fund in July 1985, with the funding solely boned by the Federal Government. It is an integral part of the requirements for the award of Certificates, Diplomas and Degrees in institutions of higher learning, e.g. Colleges of Education, Polytechnics, Universities, etc.

Student Industrial Work Experience Scheme (SIWES) exposes students to industry based skills necessary for a smooth transition from the classroom to work environments. It accords students of tertiary institutions the opportunity of being familiarized, exposed, and prepare students of universities, polytechnics, college of technology, college of agricultures and college of education for the industrial work situation they are likely to meet after graduation and to the needed experience in handling machinery and equipment

which are not found in such an educational institution

## OBJECTIVE OF SIWES

The Industrial Training Funds Policy Document No. 1 of 1973 which established SIWES outlined the objectives of the scheme. The objectives are to:

- To provide students with relevant practical experience.
- To familiarize students with typical environments in which they are likely to function professionally after graduation.
- To provide student an opportunity to see the real world of their discipline and consequently bridge the gap between the University work and actual practice.
- To change the orientation of students towards labour market when seeking for job.
- To help students access area of interest and suitability for their chosen profession.
- To enhance students, contact for future employment
- To provide access to equipment and other facilities that would not normally be available in the University workshop.etc



## **CHAPTER TWO**

### **ESTABLISHMENT OVERVIEW**

#### **EARLY BEGINNING**

Dangote Cement Company Limited Plc was founded by Aliko Dangote in 1981 as a trading company, importing and distributing cement and other commodities in Nigeria.

#### **EXPANSION AND DIVERSIFICATION**

In the 1990s, Dangote began to expand and diversify his business interests, investing in manufacturing, agriculture, and real estate. He also established the Dangote Group, a conglomerate that would eventually become one of the largest and most successful business groups in Africa.

#### **CEMENT PRODUCTION**

In 2000, Dangote began constructing a cement plant in Obajana, Kogi State, Nigeria. The plant, which was commissioned in 2007, had an initial production capacity of 5 million metric tons per annum.

#### **RECENT DEVELOPMENT**

In recent years, Dangote Cement has continued to expand its operations, investing in new plants and technologies. The company has also focused on sustainability and social

responsibility, investing in community development projects and reducing its environmental impact.

Today, Dangote Cement is one of the largest cement producers in Africa, with a production capacity of over 45 million metric tons per annum. The company is also one of the most successful and respected businesses in Africa, with a strong commitment to sustainability, social responsibility, and community development.

Here's a timeline of Dangote Cement's history:

- 1981: Dangote Cement is founded as a trading company by Aliko Dangote.
- 2000: Construction begins on the Obajana cement plant.
- 2007: The Obajana cement plant is commissioned.
- 2010: Dangote Cement is listed on the Nigerian Stock Exchange.
- 2014: Dangote Cement expands its operations to 14 African countries.
- 2020: Dangote Cement becomes one of the largest cement producers in Africa, with a production capacity of over 45 million metric tons per annum.

## **CHAPTER THREE**

### **EXPERIENCED GAIN**

During my SIWES, I achieved the following:

- Gained hands-on experience in the maintenance and repair of electrical equipment and systems
- Developed skills in electrical system design, installation, and maintenance
- Improved my understanding of electrical engineering principles and practices in a real-world industrial setting
- Successfully completed a project on the design and installation of a new electrical distribution system for the company's packing plant

## **CHAPTER FOUR**

### **CHALLENGES**

During my SIWES, I faced the following challenges:

- Limited access to some areas of the plant due to safety concerns
- Difficulty in obtaining some materials and equipment needed for my project
- Limited time to complete my project due to the demanding nature of the work schedule

### **LESSONS LEARNED**

- The importance of safety in the workplace and the need to follow safety protocols at all times
- The need to be proactive and resourceful in overcoming challenges and obstacles
- The importance of effective communication and teamwork in achieving project goals and objectives

## **CHAPTER FIVE**

### **CONCLUSION**

In conclusion, my SIWES at Dangote Cement Company Limited Plc was a valuable and enriching experience that provided me with practical experience and skills in electrical engineering principles and practices. I am grateful to the company for the opportunity to work with them and to my supervisor, Engr. O U. JIMOH, for his guidance and support throughout my SIWES.

### **RECOMMENDATION**

Based on my experience, I recommend the following:

- That students should be encouraged to participate in SIWES programs to gain practical experience and skills in their chosen field
- That companies should provide students with opportunities to work on real-world projects and to develop their skills and knowledge in a practical setting
- That students should be encouraged to take initiative and to be proactive in overcoming challenges and obstacles during their SIWES