



A TECHNICAL REPORT

ON

**STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME
(SIWES)**

HEAD AT

**CAPITAL PLANNING CONSULTANT ASSOCIATION.
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BY

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**SUBMITTED TO: THE DEPARTMENT OF ARCHITECTURAL
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INSTITUTE OF ENVIRONMENTAL STUDIES

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CERTIFICATION

This is to certify that **AFOLAYAN SULYMAN ADEBAYO** whose matric number is **ND/23/ARC/FT/034** has completed his four (4) month *SIWES* Program at **TUNAC SHELTER**. They have demonstrated a thorough understanding of the training material and have met all the requirements for completion. The work contain here is original and entirely executed by the above-named student in partial fulfillment of the requirement for the award of **NATIONAL DIPLOMA (ND)** in department of **ARCHITECTURAL TECHNOLOGY**.

SIWES CORDINATOR.

DATE

HEAD OF DEPARTMENT

DATE

DEDICATION

To my mentor who guided me through the ups and downs of this journey. Your wisdom, expertise, and unwavering support have been invaluable to me. I am forever grateful for the opportunity to have worked with you.

To all the individuals who have inspired me throughout my journey, including my colleagues, and friends. Your guidance, wisdom, and encouragement have helped shape me into the person I am today, I say a big thanks.

ACKNOWLEDGMENT

Thank be to almighty Allah for his blessing, guidance, protection, the courage and the opportunity given to me to the successful completion of my SIWES program, may his protection and blessing continue to be with us (amen).

I would like to extend my deepest gratitude to my thesis supervisor for their expert guidance and mentorship throughout this thesis Siwes. I would also like to thank my family and friends for their unwavering support and encouragement.

ABSTRACT

Architecture is a complex and multifaceted field that requires a broad range of skills and knowledge. Architects must be able to balance competing demands and priorities, and navigate the often-complex process of designing and constructing buildings. They must also be able to communicate effectively with clients, stakeholders, and other professionals, and work collaboratively to achieve common goals.

. The goal of architecture is to create buildings and environments that are not only functional and sustainable but also beautiful and inspiring. By combining art and science, creativity and technical expertise, architects can create spaces that enhance our lives, foster community and connection, and contribute to a better future for all.

This report gives a detailed account of my industrial work experience during my SIWES program at TUNAC SHELTER, which deals with designing building and structures that are aesthetically pleasing, functional and sustainable. This report is based on practical experience gained during the period of my program in the industry.

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CHAPTER ONE

1.1 INTRODUCTION TO SIWES

SIWES stands for Students Industrial Work Experience Scheme. It is the accepted skills training program, which forms part of the approved minimum Academic standards in the various degree program for all Nigerian tertiary Universities (N.U.C 1996). SIWES goes a long way inputting to test the level of knowledge a student has acquired during the industrial training program. It is an effort to bridge the gap existing between theory and other practice of architecture, engineering and technology, sciences, agriculture and other professional educational programs in the Nigerian tertiary institutions. It is aimed at exposing students to machines and equipment and professional work methods in industries and other organizations.

The scheme is a tripartite program, involving the students, the universities and the industries (employers of labor). It affords students the opportunity to familiarize and expose themselves to the knowledge and experience needed in handling equipment that is not readily available in their various institutions. Before the establishment of this scheme, employers believed that the theoretical education in tertiary institutions were not adequate enough to meet most of the needs of employers of labor

Students Industrial Work Experience Scheme (SIWES) was established in 1971 by decree 47 with the aim of promoting and encouraging the acquisition of skills in the private and public industries. Its relevance in education system cannot be over emphasized as it develops the student to become skilled and experience professionalism in their various disciplines. It enables students to appreciate the basic concept involved in their field of study. It is also an effort to bridge the gap existing between theory and practical, in the sense that it exposes students to real industrial work experience. SIWES, which involves the University authorities and the industrial sector, runs for 24 weeks for students in the fourth academic year in universities. The scheme was organized by the Federal Government and jointly coordinated by the Industrial Training Fund(ITF) and the Nigeria Universities Commission (NUC).The importance of the training scheme is justified as it is a research field, which enables students to be totally in-depth in finding the working culture, practice and tools in their various areas of specialization.

1.2 OBJECTIVES OF SIWES

1. SIWES will provide students opportunity to test their interest in a particular career before permanent commitments are made
2. SIWES students will develop skills in the application of theory to practical work situation
3. SIWES students will develop skills and techniques directly applicable to their career
4. SIWES will aid students in adjusting from colleges to full-time employment
5. SIWES will provide students the opportunity to develop attitudes conducive to effective interpersonal relationships
6. It helps to bridge the gap between theoretical knowledge acquired in the classroom and practical skills required in the industry.
7. To develop students' skills and competencies in areas such as communication, teamwork, problem-solving, and critical thinking.
8. To provides students with an opportunity to learn about industrial practices and procedures, including safety protocols, quality control measures, and production processes.
9. To promotes collaboration between academic institutions and industries, allowing for the exchange of ideas, expertise, and resources.

CHAPTER TWO

2.1 BRIEF INTRODUCTION OF THE FIRMS

I was opportune to start my industrial attachment training in the month of September 2021 with TUNAC SHELTER. Which deals with the labour force on site. The proposed project is awarded to the contractors of which the time frame to be met is also considered. The name of the organization is TUNAC SHELTER is located at Along No.59 ayangburen road ikorodu, lagos State directly. TUNAC SHELTER was established on the year 2014, The firm is headed by the ARC TUNDE AKINDELE.

TUNAC SHELTER is an architectural firm that is dedicated to design in excellence which integrates function, aesthetics, sustainability and affordability and also ensures every project comes out unique with exquisite designs features. We also carryout structural, mechanical, electrical and quantity survey at the cooperation. Our designs have exceptional attributes where every detail counts.

CHAPTER THREE

3.1 SCOPE OF THE WORKDONE

THERE MAIN PHYSICAL WORK WHICH IS DIVIDED INTO TWO

1 PRESENTATION DRAWINGS

2 WORKING DRAWINGS

PRESENTATION DRAWINGS:

It refers to the first stage of Architecture design which carry its life future of Architectural element of design. And it's used to convince the client.

WORKING DRAWINGS:

includes the following

1 Floor plan

2 Site plan

3 Sections

4 Elevation

5 Foundation

6 Roof plan

The floor plans It displace the unit of a design such as bedroom, main lounge, dinning, eating

hall, bathroom, toilet, office e.t.c

The foundation plan it displace the essential of excavation tranches.

CHAPTER FOUR

4.0 DESIGN EXPERIENCE

4.1 PROJECT.1

GARAGE

A Garage is a structure or part of a building designed to store and protect vehicles, typically cars. Garages can be attached to a house, detached, or even built into a hillside.

TYPES OF GARAGES:

1. Attached garage: Connected to the main house, often sharing a wall.
2. Detached garage: A separate building from the main house.
3. Integral garage: Built into the main house, often with a shared roof.

GARAGE FUNCTIONS:

1. Vehicle storage: The primary purpose of a garage.
2. Workshop: A space for hobbies, repairs, or projects.
3. Storage: Additional storage for household items, tools, or equipment.
4. Living space: Some garages are converted into living areas, like apartments or home offices.

4.2 PROJECT.2

A ONE BEDROOM

I was asked to design a one bedroom building containing sixteen units in total. The features

of the design are terrace, living room, kitchen, lobby, bedroom, toilet.

Lesson Learnt: I was able to manage spaces due to the small portion of land, and made sure

the spaces were well accessible and I made sure that the windows size was

1200x1500mm

because of their orientation and ventilation.

4.3 PROJECT.3

A FOUR BEDROOM FLAT

Bubble diagram, Functional relationship

I designed a bedroom duplex as sketched by my supervisor which had four units.

The following features are present: a master's bedroom, three other bedrooms, a kitchen, main lounge, yard, and a lightning lobby.

Lesson Learnt: I was able to manage spaces due to the size of the land, and made sure the spaces were well accessible and ventilated. And also putting more effort to meet the client need.

4.4 PROJECT.3

A FIVE BEDROOM FLAT

Floor plan, elevation, section, bubble diagram, functional relationship

I designed a bedroom duplex as sketched by my supervisor which had four units.

The following features are present: a master's bedroom, three other bedrooms, a kitchen, main Living Room, Dinning, and a lightning lobby.

CHAPTER FIVE

5.1 PROBLEMS AND CHALLENGES

PROBLEMS ENCOUNTERED

The problems or challenges encountered during my six (4) months' work experience which could be constraints to future students who may want to observe their SIWES in LSDPC can be stated as follows.

REJECTION OF STUDENTS

Some organizations reject students when approached for placement. This to a large extent discourages students and kills their enthusiasm towards the SIWES program. Also, the process of entering the Corporation was politicalized, as you had to know somebody working in the Corporation before you can be accepted to work, this routine of recruitment had discouraged students.

5.2 CHALLENGES

FINANCIAL PROBLEM

This was a major constraint because the allowance given to trainee was not encouraging.

1. Finance are meant to be considered as a motivating factor for any intending trainee student.
2. Financial aid is very important to help the students cover up the expenses of feeding,
3. transportation and wears (i.e., official wears) among others.

TRANSPORTATION PROBLEM

Though, transport services were provided for the staffs to various routes but it was amazing

that I.T. Students were not liable to any seat until all the staffs had conveniently seated and

most times, we were inconveniently packed and bullied when in the bus. This act of discrimination is really disgusting because it makes trainees to feel inferior.

5.3 RECOMMENDATIONS

This Siwes program has being of immense benefit to me while undergoing the training. Thus to ameliorate the situation sprouting from the identified problems and makes SIWES more beneficial, the following recommendations are following

1. The Federal Government should make it compulsory for all ministries, public parastatals and companies to offer placement to interested students as stated in the NUC job specification for SIWES.
2. The payment of prompt ITF allowance in order to encourage them for efficient carriage of duties.

5.4 CONCLUSION

In the past 4 months of my learning, I learnt a crucial aspect of Architecture and enlightening me to various design in building construction. The SIWES program has contributed immensely to the acquisition of practical experience and knowledge which are of paramount importance to my field of study. Its relevance therefore can never be overestimated. This training section has broadened my level of knowledge and as well paved way for diverse future opportunities.