

**A TECHNICAL REPORT ON
STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME
(SIWES)**

**UNDERTAKEN AT
ADELAT ENVIRONMENTAL NIG, LTD.
BLOCK B12, MURADA PLAZA, IBB MARKET SULEJA, NIGER STATE
BY**

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PREFACE

This technical report aims objectively on what I gained during my student industrial working scheme (SIWES), at ADELAT ENVIRONMENTAL NIG, LTD. which lasted for four months (4) which I started on August to November.

This report discusses my experience, the history of Adelat environmental Nig, Ltd, brief history of SIWES, the various department and their function. It does also discusses some of the challenge which I encountered during my SIWES at Adelat environmental nig, ltd.

The experience acquired during my four month student training, has been a memorable and an unforgettable one in which I will never forget. I was exposed to some practical aspect of my profession, especially on the field of my programming either to anchor present or produce a live programme. I also learnt some function and instrument in the studio.

DEDICATION

This report is dedicated to almighty Allah, the creator, the beginner and finisher of my academic affairs. It is also dedicated to my parent Mr. GANIYU SULEMAN & Mrs. SULEMAN AMINAT.

My dedication also goes to the programme lecturer, and also my appreciation also to the C.E.O of Adelat environmental Nig, Ltd. and also the deputy director, admin may God bless you abundantly.

ACKNOWLEDGEMENT

I give thanks to almighty Allah for his immeasurable mercies over me. I give praise and adoration unto him for the gift of life.

My immeasurable gratitude goes to my parent, Mr. GANIYU SULEMAN and Mrs. SULEMAN AMINAT. They are there when I needed them. For their advice, I say a big thank you. I might not know what life look if not for them.

I also want to thank my honorable supervisors at my place of SIWES, for their support. I also thank the staff (both presenter and reporters) at Adelat environmental Nig, Ltd. for the opportunity entrusted to me.

I also appreciate my friend and families for their support throughout my SIWES program. I will also like to thank my other I.T and SIWES students I met at Adelat environmental Nig, Ltd. All I can say to you all who supported me physically, financially, spiritually and emotionally. I say a very big thank you.

CHAPTER ONE

MEANING OF SIWES

Student Industrial Work Experience Scheme (SIWES) is the skills training program which form part of the approved minimum academic standard in the various degree program for all tertiary institution in Nigeria. It is the gap between practical aspect and theory of either technological related subject or other professional educational programs in Nigeria. It is the training programme which forms part of the academic standard in the various degree for all Nigeria Tertiary Institutions.

BRIEF HISTORY OF SIWES

Student industrial work experience scheme (SIWES) was established by Industrial Training Fund (ITF) in 1973/1974 to solve the problem of lack of adequate practical skills preparatory for employment in industries by Nigerian graduate of tertiary institution.

The SIWES was founded to help be a skilled train and to expose and prepare students of polytechnics, universities, and tertiary institution for the industrial work situation to be met after graduation. This scheme series as a smooth transitions form their classroom to the world of work and further help in the application of knowledge. The scheme provide students with the opportunity of area acquainting and expressing themselves to the experience.

OBJECTIVES OF SIWES

1. To provide an avenue for students in institution of higher learning to acquire industrial skills and experience in their approved courses of study
2. Prepare students for the industrial work situation which they are likely to meet after graduation

3. Expose students to work methods and techniques in handling equipment and machinery not available in their institution
4. Provide students which they are likely to meet after graduation
5. Expose students to work methods and techniques in handling equipment and machinery not available in their various institutions.

CHAPTER TWO

HISTORY OF THE ORGANIZATION

Adelate environmental Nig, Ltd. was established in the 1970s with a vision to create a sustainable and environmentally conscious built environment in Nigeria. The organization's founders were committed to designing buildings and communities that were not only functional and aesthetically pleasing but also environmentally sustainable: Here is a brief history of Adelat environmental Nig, Ltd:

- Establishment: In the 1970s, Adelat environmental Nig, Ltd. was established as a response to Nigeria's growing need for quality architectural services. The organization's founders, a group of Nigerian architects, were committed to creating buildings that were not only functional and aesthetically pleasing but also responsive to the country's tropical climate and cultural heritage.
- Vision and Mission: When Adelat environmental Nig, Ltd. was established in the 1970s, the organization's vision was to create buildings that were functional, aesthetically pleasing, and responsive to Nigeria's tropical climate and cultural heritage. The founders of Adelat environmental Nig, Ltd. were committed to designing buildings that would improve the quality of life for Nigerians and promote sustainable development.
- Content and Programming:
 1. Architectural design: Providing high-quality architectural design services for buildings and communities.
 2. Building construction: Managing building construction projects, ensuring timely completion and quality control.

3. Urban planning: Developing urban planning strategies to promote sustainable development and community engagement.

➤ Audience Engagement:

1. Architectural design presentations: Presenting architectural design concepts to clients and stakeholders.
2. Building construction updates: Providing updates on building construction projects to clients and stakeholders.
3. Urban planning workshops: Conducting workshops on urban planning and community development.

➤ Social Impact:

1. Providing affordable housing: Designing and building affordable housing units for low-income families.
2. Community development: Engaging with local communities to develop and implement community development projects.
3. Environmental conservation: Promoting environmental conservation and sustainability in building design and construction.

➤ Challenges and Resilience:

Adelat environmental Nig, Ltd. faced several challenges in its early years, including:

1. Limited resources: Adelat environmental Nig, Ltd. had limited financial and human resources, making it difficult to undertake large-scale projects.

2. Lack of infrastructure: Nigeria's infrastructure was underdeveloped, making it challenging to access remote areas and transport materials.
3. Cultural and social barriers: Adelat environmental Nig, Ltd. had to navigate cultural and social barriers to engage with local communities and understand their needs.

➤ Future Outlook:

Adelat environmental Nig, Ltd. early vision was to create a sustainable and environmentally conscious built environment in Nigeria. The organization's founders were committed to designing buildings and communities that were not only functional and aesthetically pleasing but also environmentally sustainable.

Overall, Adelate environmental Nig, Ltd. is a Nigerian organization that specializes in architectural design, sustainable development, and environmental stewardship. The organization was established in the 1970s with a vision to create a sustainable and environmentally conscious built environment in Nigeria.

INSTRUMENTS IN THE STUDIO

- a. Scale rule
- b. T-square
- c. Drawing table
- d. Set square
- e. Laptop
- f. Tape
- g. Pencils
- h. Cleaner
- i. Generator e.t.c

VARIOUS DEPARTMENT AND THEIR FUNCTIONS

While the specific departments within Adalat environmental Nig, Ltd. may vary depending on the size, structure, and operational needs of the organization, here are some common departments that would typically be found in a building construction:

1. Architectural Department

- 1. Design and planning: Responsible for designing and planning the building's layout, structure, and aesthetics.
- 2. Blueprints and drawings: Creates blueprints and drawings for construction.
- 3. Design compliance: Ensures design compliance with building codes and regulations.

2. Engineering Department

1. Structural engineering: Designs and analyzes the building's structural elements, such as foundations, walls, and roofs.
2. Mechanical engineering: Designs and installs mechanical systems, including HVAC, plumbing, and electrical.
3. Electrical engineering: Designs and installs electrical systems, including power distribution and lighting.

3. Construction Management Department

1. Project planning and scheduling: Plans and schedules construction activities.
2. Site management: Oversees construction site activities, including safety, quality control, and logistics.
3. Budgeting and cost control: Manages project budget and controls costs.

4. Procurement Department

1. Material procurement: Purchases materials, equipment, and services necessary for construction.
2. Supplier management: Manages relationships with suppliers and vendors.
3. Inventory management: Manages inventory of materials and equipment.

5. Quality Assurance and Control Department

1. Quality control inspections: Conducts regular inspections to ensure quality standards are met.

2. Defect identification and resolution: Identifies and resolves defects or issues.
3. Testing and commissioning: Tests and commissions systems to ensure proper function.

6. Safety Department

1. Site safety inspections: Conducts regular site safety inspections.
2. Safety protocol enforcement: Enforces safety protocols and procedures.
3. Incident reporting and investigation: Reports and investigates incidents or accidents.

7. Electrical Department

1. Electrical system installation: Installs electrical systems, including power distribution and lighting.
2. Electrical system testing: Tests electrical systems to ensure proper function.
3. Electrical system maintenance: Maintains electrical systems to ensure continued proper function.

8. Mechanical Department

1. Mechanical system installation: Installs mechanical systems, including HVAC and plumbing.
2. Mechanical system testing: Tests mechanical systems to ensure proper function.

3. Mechanical system maintenance: Maintains mechanical systems to ensure continued proper function.

9. Plumbing Department

1. Plumbing system installation: Installs plumbing systems, including water supply and drainage.

2. Plumbing system testing: Tests plumbing systems to ensure proper function.

3. Plumbing system maintenance: Maintains plumbing systems to ensure continued proper function.

10. Finishing Department

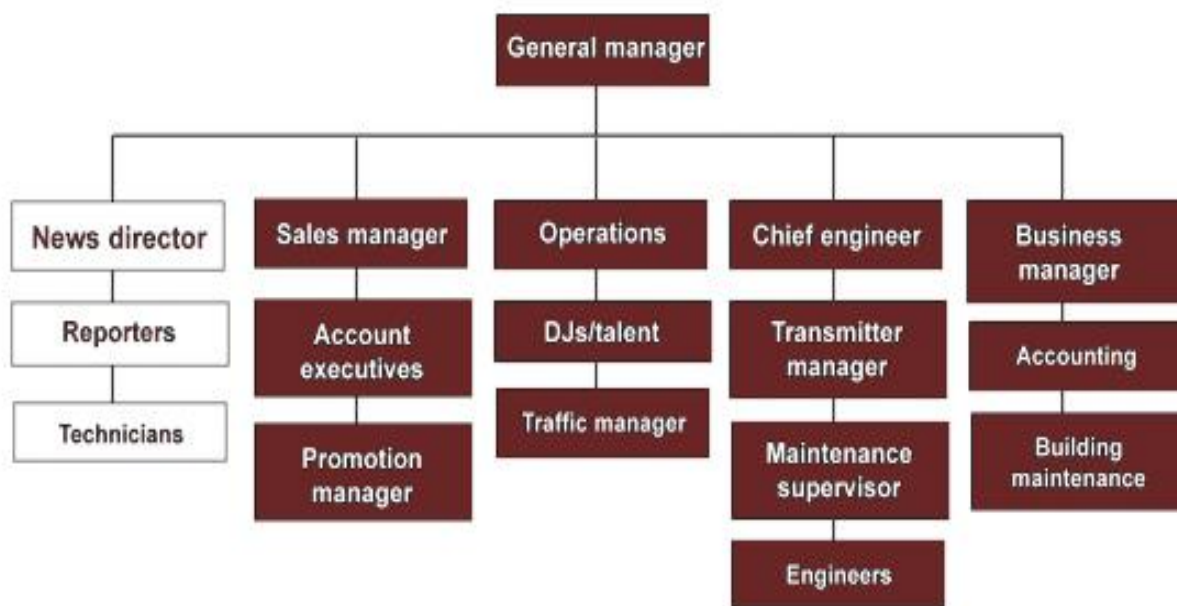
1. Finishing work installation: Installs finishing work, including drywall, paint, and flooring.

2. Finishing work inspection: Inspects finishing work to ensure quality standards are met.

3. Finishing work touch-ups: Performs touch-ups and repairs to finishing work as needed.

These departments work together to ensure that a building construction project is completed safely, on time, and within budget.

ORGANOGRAM OF ADELAT ENVIRONMENT NIG. LTD.



CHAPTER THREE

TECHNICAL EXPERIENCE

1. I was taught about how to scale.
2. I learn how to measure.
3. I learn how to shape pencils in architecture ways.
4. I was taught on how to place a paper in table.
5. I was taught on how to sketch two bedroom flat plan.
6. I was taught on how to sketch roof plan.
7. I learn how to sketch elevation.
8. I was taught on how to sketch section.
9. I was taught on how to sketch site plan.
10. I was taught on how to sketch internal and external perspective.
11. I was taught on how to sketch site zoning.
12. I was taught on how to sketch site analysis.
13. I was taught on how to sketch site inventory

WORKDONE

- ❖ I handled their table and i place my paper on it, and i started sketching.
- ❖ I engaged in plan first.
- ❖ I started sketching elevation of my building, front view and back view.
- ❖ I started sketching my section, cross section AA cross section BB.
- ❖ I started with my external perspective before the internal perspective.

CHAPTER FOUR

CHALLENGES ENCOUNTERED

The challenges or problem I encountered during my four month SIWES period were not very extreme in which some were solved and some were without solution some of the problems I encountered during the program at ADELAT ENVIRONMENTAL NIG, LTD. were:

- i. The lack of transportation was also part of the challenge the siwes students were not able to carryout then work very well due to space there is no function department
- ii. Lack of finance

RECOMMENDATION

I recommend that the I.T /SIWES program should be continued in all tertiary institution because it help so many students in practical aspect and academic performance as well as work experience. In other to make it easier student should look for interested places where gain practical aspect of what they were being taught in class.

Allowance should also be paid to the students during the program just like NYSC. It would help them a great deal in handling some financial problem during their training course.

I also recommend that the government and school authority should assist the student in securing a good place for them. I.T / SIWES program because some students found