



**A TECHNICAL REPORT ON
STUDENT INDUSTRIAL WORK EXPERIENCE
SCHEME {S.I.W.E.S}**

HELD AT:

ADKAB DYNAMIC CONSTRUCTION LIMITED

BY

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ND/23/BLD/FT/0057

**DEPARTMENT OF BUILDING TECHNOLOGY
INSTITUTION OF ENVIRONMENTAL STUDIES
KWARA STATE POLYTECHNIC, ILORIN**

FROM

SEPTEMBER TO DECEMBER, 2024

**IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR
THE AWARD OF ORDINARY NATIONAL DIPLOMA {O.N.D}
IN BUILDING TECHNOLOGY, KWARA STATE
POLYTECHNIC**

CERTIFICATION

This is to certify that **AREMU BASIT ABIODUN** matriculation number **ND/23/BLD/FT/0057** undergoes his industrial training at **ADKAB DYNAMIC CONSTRUCTION LIMITED** In partial fulfillment of the award of National Diploma (ND) in Building Technology, Kwara State Polytechnic, Ilorin, undersigned by the following people:

.....
MR. IBRAHIM S.B
Siwes Supervisor

.....
DATE

.....
BLDR ABDULGANIYU ALEGE
Head of Department

.....
DATE

ACKNOWLEDGEMENTS

I express my sincere gratitude to ADKAB DYNAMIC CONSTRUCTION LIMITED for the opportunity to undergo my SIWES training. I appreciate the guidance and support of my supervisors and colleagues, who made my learning experience enriching and rewarding.

ABSTRACT

This report details my Student Industrial Work Experience Scheme (SIWES) at Adkab Dynamic Construction Limited, covering a period of 3 Month. The internship aimed to provide hands-on experience and bridge the gap between theoretical knowledge and real-world industrial practices.

The report begins with an overview of SIWES, its objectives, and the significance of industrial training. It also provides an introduction to Adkab Dynamic Construction Limited, its organizational structure, and key operational areas.

The core of this report outlines the tasks assigned to me, the tools and software used, the skills acquired, challenges faced, and solutions implemented. Furthermore, recommendations for both the organization and future interns are provided.

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CHAPTER 1

Introduction

Background of the Study:

The Student Industrial Work Experience Scheme (SIWES) was introduced by the Industrial Training Fund (ITF) in 1973 to bridge the gap between classroom learning and practical industry experience. It is a crucial component of training for students in science, engineering, management, and technology-related fields.

The Student Industrial Work Experience Scheme (SIWES) is a program designed to bridge the gap between theoretical knowledge and practical application for students in tertiary institutions. It provides hands-on experience in real-world settings, enhancing students' skills and preparing them for future professional challenges. This report details my industrial attachment at Adkab Dynamic Construction Limited, a company specializing in various construction services.

Objectives of SIWES

The primary objectives of SIWES include:

- Exposing students to industry practices and standards.
- Developing practical skills relevant to their field of study.
- Enhancing understanding of workplace dynamics and professional ethics.
- Facilitating the application of theoretical knowledge in real-world scenarios.

Scope of the Study:

This report encompasses an overview of Adkab Dynamic Construction Limited, the departments I was involved in, the tasks performed, challenges encountered, and recommendations for improvement.

CHAPTER 2

OVERVIEW OF ADKAB DYNAMIC CONSTRUCTION LIMITED

Company Profile

Adkab Dynamic Construction Limited is a reputable construction firm known for delivering quality services in building and civil engineering projects. The company has established itself as a key player in the construction industry, undertaking projects that range from residential buildings to large-scale infrastructure developments.

Organizational Structure

Adkab Dynamic Construction Limited operates with a structured hierarchy to ensure efficient project execution:

1. **Managing Director:** Oversees overall company operations and strategic planning.
2. **Project Managers:** Responsible for specific projects, ensuring they meet client requirements and standards.
3. **Site Engineers:** Handle on-site supervision, quality control, and technical guidance.
4. **Administrative Staff:** Manage documentation, procurement, and logistics.
5. **Skilled and Unskilled Workers:** Execute construction tasks as directed.

Services Offered

The company offers a wide array of services, including:

- **Building Construction:** Residential, commercial, and industrial structures.
- **Civil Engineering Works:** Roads, bridges, and drainage systems.
- **Project Management:** Planning, coordination, and supervision of construction projects.
- **Renovation and Remodeling:** Upgrading and modifying existing structures.

CHAPTER 3

EXPERIENCE DURING THE SIWES PROGRAM

Departments Worked In

During my attachment, I was assigned to various departments to gain a holistic understanding of the company's operations:

- **Site Operations:** Involved in daily construction activities and site management.
- **Quality Control:** Ensured materials and workmanship met specified standards.
- **Project Planning:** Assisted in scheduling, resource allocation, and progress monitoring.
- **Health and Safety:** Participated in enforcing safety protocols and conducting risk assessments.

LESSONS LEARNED

- Laying of foundation block (9 Inches Block)
- Filling of foundation with laterite soil, spreading of laterite all over the excavated part of the land
- Laying of blocks (9 Inches Block) site at Ajejunle Asadam
- Supply of plank for the lintel
- Fixing of formwork for the window lintel
- Cutting of reinforcement bar
- Bending and bending of reinforcement bar
- Casting of window lintel with ratio 1:2:2
- Plastering of the Inner officers with ratio 1:6
- Casting of the pilers in the soak away
- Filling and taking level of the compound
- Fitting/hanging of doors and windows
- 2 plots of land fence Excavation

Tasks Performed

- **Site Supervision:** Monitored construction activities to ensure compliance with designs and specifications.
- **Material Testing:** Conducted tests on construction materials to verify quality.
- **Documentation:** Prepared reports, maintained logs, and assisted in drafting project plans.
- **Client Meetings:** Attended meetings with clients to discuss project progress and address concerns.

Skills and Knowledge Acquired

- **Technical Proficiency:** Enhanced understanding of construction techniques and material properties.
- **Project Management:** Gained insights into planning, scheduling, and resource management.
- **Communication:** Improved ability to interact with team members, clients, and stakeholders effectively.
- **Problem-Solving:** Developed skills to identify issues and implement practical solutions promptly.

CHAPTER 4

CHALLENGES AND SOLUTIONS

Challenges Encountered

- **Resource Constraints:** Occasional shortages of materials leading to project delays.
- **Weather Conditions:** Adverse weather impacting construction schedules.
- **Coordination Issues:** Miscommunication among teams causing workflow disruptions.

Solutions and Recommendations

- **Improved Planning:** Implementing better forecasting to ensure timely procurement of materials.
- **Weather Mitigation Strategies:** Developing contingency plans to accommodate weather-related delays.
- **Enhanced Communication:** Regular meetings and clear channels to improve coordination among teams.

CHAPTER 5

CONCLUSION AND RECOMMENDATIONS

Conclusion

The SIWES program at Adkab Dynamic Construction Limited provided invaluable practical experience, allowing me to apply academic knowledge in real-world scenarios. The exposure to various aspects of construction projects has significantly enhanced my understanding and prepared me for future professional endeavors.

Recommendations

- **Continuous Learning:** Encourage staff to engage in ongoing professional development.
- **Technology Integration:** Adopt modern construction technologies to improve efficiency.
- **Stakeholder Engagement:** Maintain open communication with clients and stakeholders to ensure project alignment with expectations.