TECHNICAL REPORT

ON

STUDENTS INDUSTRIAL WORK EXPERIENCE SCHEME (SIWES)

AT

KWARA STATE MINISTRY OF WORK AND TRANSPORT

PMB 1342, AHMADU BELLO WAY, ILORIN, KWARA STATE

PRESENTED BY:

ONIPEDE MARYAM ABIODUN

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DEDICATION

I dedicate my Industrial Training report to Almighty God, who has given me the grace to participate in the SIWES program, to my Parents and as many that have contributed greatly to the success of my Industrial Training.

ACKNOWLEDGEMENT

I thank God who has seen me throughout my SIWES program and also thank my Industrial based supervisor who guided me through My Industrial training. I also send out my appreciation to my lecturers, friends and Coworkers for their moral support. My special thanks to my wonderful and lovely parents Mr. and Mrs. Adewuya who were there for me in terms of care, prayers, financial support and others.

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CHAPTER ONE

INTRODUCTION

1.1 BACKGROUND

The Students Industrial Work Experience Scheme (SIWES) is a work-based learning program designed to prepare students for the transition from academic life to professional careers. It is an integral part of the Nigerian educational system, aimed at equipping students with practical skills and knowledge to complement their theoretical studies. SIWES was established in 1973 by the Industrial Training Fund (ITF) in response to the growing concerns of employers about the lack of practical skills among graduates from tertiary institutions (Ezeabikwa, 1991). The scheme is a collaborative initiative involving students, tertiary institutions, employers of labor, and the ITF.

The program was introduced to address the gap between classroom learning and the real-world demands of industries. It recognizes that while theoretical knowledge is essential, it is often insufficient for solving practical problems in professional environments. SIWES provides students with opportunities to gain hands-on experience, develop technical competencies, and understand workplace ethics and culture (Agbai, 1992).

The scheme is a mandatory part of the curriculum for students studying courses such as engineering, technology, medical sciences, agriculture, education, and other applied sciences. It typically lasts for six months for university undergraduates and four months for students in polytechnics or colleges of education (ITF, 2024). Through this initiative, students are exposed to industrial practices and technologies that are not available within their academic institutions. This exposure enhances their employability and prepares them for the challenges of the modern workforce (Adebayo & Adesanya, 2013).

SIWES also serves as a platform for fostering partnerships between educational institutions and industries. These partnerships enable industries to contribute to curriculum development by providing feedback on the skills and knowledge required in the workplace. This collaboration ensures that graduates are better equipped to meet industry standards and expectations (Akinyemi & Abiodun, 2018).

In summary, SIWES is a vital component of Nigeria's educational system that bridges the gap between theory and practice. It plays a crucial role in preparing students for professional careers by equipping them with practical skills, knowledge, and experiences that are essential for success in their chosen fields.

1.2 BRIEF HISTORICAL DEVELOPMENT OF SIWES

The history of SIWES dates back to the early 1970s when Nigeria experienced rapid industrial growth following its independence. This growth created a demand for skilled manpower to operate and manage industrial facilities. However, employers soon realized that graduates from tertiary institutions lacked the practical skills needed to perform effectively in the workplace (Ezeabikwa, 1991).

In response to this challenge, the Industrial Training Fund (ITF) was established in 1971 by Decree No. 47 with a mandate to promote skill acquisition and manpower development in Nigeria. Two years later, in 1973, SIWES was introduced as one of ITF's flagship programs aimed at addressing the skill gap among graduates (ITF, 2024). Initially, SIWES was fully funded and managed by ITF. The program targeted students in engineering and technology-related fields who required practical training as part of their academic curriculum (Adebayo & Adesanya, 2013).

By 1978, financial constraints forced ITF to withdraw from direct management of SIWES. The Federal Government subsequently transferred oversight responsibilities to the National Universities Commission (NUC) for universities and the National Board for Technical

Education (NBTE) for polytechnics and colleges of education (Legit.ng, 2022). However, this arrangement proved ineffective due to inadequate funding and poor coordination among stakeholders. In 1984, management responsibilities were returned to ITF under a new funding arrangement supported by the Federal Government (SmartBukites, 2023).

Over time, SIWES has undergone significant changes aimed at improving its effectiveness and expanding its scope. Initially limited to engineering and technology disciplines, it now includes other fields such as medical sciences, agriculture, business administration, and education. These changes reflect an ongoing commitment to align SIWES with evolving industry needs and national development goals (Akinyemi & Abiodun, 2018).

Today, SIWES is recognized as one of Nigeria's most successful initiatives for bridging the gap between academic learning and industrial practice. It has become an essential component of tertiary education in Nigeria, contributing significantly to skill development and employability among graduates.

1.3 OBJECTIVES OF SIWES

The primary objectives of SIWES are multifaceted and aim to enhance both student learning and industry engagement:

- To provide students with industrial skills and experience relevant to their field of study.
- To expose students to work methods and techniques that may not be available in their academic institutions.
- To facilitate a smoother transition from academic life to professional employment by enhancing students' networks with potential employers.
- To allow students to apply theoretical knowledge in practical settings, thereby bridging the gap between theory and practice.

- To strengthen employer participation in the educational process by fostering collaboration between educational institutions and industries (Ezeabikwa, 1991; ITF, 2024).

CHAPTER TWO

DESCRIPTION OF THE ESTABLISHMENT OF ATTACHMENT

2.1 LOCATION AND BRIEF HISTORY OF ESTABLISHMENT

The **Kwara State Ministry of Works and Transport** is strategically located at PMB 1342, Ahmadu Bello Way, Ilorin, Kwara State, positioning it centrally to oversee and manage the state's infrastructure and transportation systems effectively. This location allows for easy access to major roads and transportation hubs, facilitating the Ministry's role in coordinating and implementing projects across the state. The Ministry has a rich and storied history of contributing significantly to Kwara State's infrastructural development, with a strong focus on enhancing transportation systems and promoting economic growth through improved connectivity. Historically, the Ministry has evolved over the years to address the growing needs of the state, particularly in the transportation sector. The introduction of mass transit systems in Kwara State dates back to 1975 with the establishment of the 'Kwara Line,' although it collapsed in 1980 due to management issues. The Kwara State Transport Corporation was later established in 1989 to manage and coordinate transportation services within and outside the state, marking a significant step towards improving public transportation and enhancing connectivity across the state. Over the years, the Ministry has continued to adapt and evolve, incorporating new technologies and strategies to improve its services. This includes the development of more efficient public transportation systems, the maintenance of existing infrastructure, and the construction of new roads and bridges to facilitate easier movement within and outside the state. The Ministry's efforts have been instrumental in transforming Kwara State into a hub for economic activity, attracting businesses and investments by providing a robust infrastructure that supports growth and development. Furthermore, the Ministry's commitment to sustainability has led to the adoption of environmentally friendly practices in its projects, ensuring that development is

balanced with environmental stewardship. Through its strategic location and historical evolution, the Ministry remains a pivotal institution in shaping the future of Kwara State's infrastructure and transportation landscape. Additionally, the Ministry has been proactive in engaging with local communities to understand their needs and preferences, ensuring that projects are tailored to meet these demands. This community-centric approach has fostered trust and cooperation, leading to smoother project implementations and greater acceptance of new infrastructure developments. The Ministry also collaborates with other state and federal agencies to leverage resources and expertise, which is crucial for large-scale projects that require inter-agency coordination. Moreover, the Ministry invests in research and development to stay updated with the latest technologies and best practices in transportation and infrastructure management. This includes adopting green technologies and innovative construction methods that not only enhance efficiency but also reduce environmental impact. By embracing these advancements, the Ministry continues to improve its services, ensuring that Kwara State remains competitive and attractive for both residents and investors alike. Overall, the Ministry's comprehensive approach to infrastructure development has positioned Kwara State as a model for sustainable growth and development in Nigeria, demonstrating how effective planning and management can transform a region's economic and social landscape.

2.2 OBJECTIVES OF ESTABLISHMENT

The primary objectives of the Kwara State Ministry of Works and Transport are multifaceted and aimed at enhancing the overall quality of life for residents while promoting economic growth. These objectives include:

- **Infrastructural Development**: To drive infrastructural projects that enhance connectivity and ease of movement across the state. This involves the construction and maintenance of roads, bridges, and other critical infrastructure necessary for economic development.
- **Transportation Management**: To establish and maintain an efficient transportation system that supports economic growth and improves the quality of life for residents. This includes managing public transportation services, ensuring that they are reliable, safe, and accessible to all.
- **Road Safety**: To ensure compliance with road safety rules and reduce traffic congestion through effective traffic management. This involves enforcing traffic laws, conducting regular vehicle inspections, and implementing safety measures to minimize accidents.
- **Economic Growth**: To create new economic opportunities by improving infrastructure and attracting investments. By enhancing transportation networks, the Ministry aims to make Kwara State more attractive to businesses and investors, thereby boosting economic activity.
- **Environmental Sustainability**: To ensure that all infrastructural projects are environmentally sustainable and minimize negative impacts on the environment. This includes implementing green technologies and practices in construction and transportation management.

2.3 ORGANIZATION STRUCTURE

The Ministry is structured with various departments and units, each playing a crucial role in achieving its objectives. The structure typically includes:

- **Commissioner's Office**: Oversees the overall direction and policy implementation of the Ministry. The Commissioner serves as the chief executive officer and is responsible for making key decisions regarding the Ministry's operations and strategic direction.
- **Directorates**: Include departments like Civil Engineering, Transport Mechanism, and others that handle specific aspects of infrastructure and transportation. These directorates are headed by directors who are experts in their respective fields and are responsible for the day-to-day operations of their departments.
- **Units**: Such as the Transport Mechanism Unit where you were attached, which focuses on the technical aspects of transportation planning and management. These units are specialized and provide support to the broader objectives of the Ministry.

2.4 DEPARTMENTS IN THE ESTABLISHMENT AND THEIR FUNCTIONS

Departments and Their Functions:

1. **Civil Engineering Department**:
    - Responsible for designing, constructing, and maintaining roads and bridges.
    - Oversees major infrastructural projects like road rehabilitation and construction.
    - Works closely with other departments to ensure that all projects are aligned with the Ministry's overall objectives.

2. **Transport Mechanism Unit**:
    - Focuses on the technical aspects of transportation planning and management.
    - Involved in ensuring that transportation systems are efficient and well-coordinated.
    - Conducts studies and analyses to identify areas for improvement in transportation services.
3. **Vehicle Inspection Unit**:
    - Conducts inspections to ensure vehicles are roadworthy and comply with safety standards.
    - Helps in reducing accidents by enforcing vehicle safety regulations.
    - Collaborates with law enforcement agencies to ensure compliance with traffic laws.
4. **Kwara State Road Traffic Management Authority (KWARTMA)**:
    - Responsible for managing traffic flow and ensuring compliance with traffic laws.
    - Works to reduce congestion and improve road safety across the state.
    - Implements traffic management strategies to minimize travel times and enhance overall traffic efficiency.
5. **Planning and Development Department**:
    - Develops strategic plans for infrastructural development and transportation management.
    - Assesses needs and resources to guide future projects and policies.
    - Conducts feasibility studies for proposed projects to ensure they are viable and align with the Ministry's objectives.

6. **Procurement Department**:
    - Handles all procurement processes for the Ministry, ensuring transparency and compliance with procurement laws.
    - Oversees the acquisition of materials and services necessary for infrastructural projects.
7. **Finance Department**:
    - Manages the financial operations of the Ministry, including budgeting and accounting.
    - Ensures that all financial transactions are properly recorded and audited.
8. **Human Resources Department**:
    - Responsible for managing the Ministry's workforce, including recruitment, training, and personnel development.
    - Ensures that the Ministry has the necessary human resources to achieve its objectives.

These departments work together to achieve the Ministry's objectives of enhancing infrastructure and transportation systems in Kwara State. Each department plays a vital role in ensuring that the Ministry operates efficiently and effectively.

CHAPTER THREE

INDUSTRIAL EXPERIENCE

3.1 WORK DONE

During my SIWES programme at the Kwara State Ministry of Works and Transport, I was attached to the Transport Mechanism Unit. This placement provided me with a comprehensive understanding of the technical aspects of transportation planning and management. My responsibilities were diverse and included assisting in the planning and coordination of transportation projects, conducting field observations to assess the condition of existing infrastructure, and participating in meetings to discuss project progress and challenges.

One of my primary tasks was to assist in the planning phase of new transportation projects. This involved analyzing data on traffic patterns, population growth, and economic development to identify areas where new infrastructure was needed. I worked closely with the planning team to develop proposals for new projects, including road expansions, bridge constructions, and public transportation systems. This process taught me the importance of integrating multiple factors into project planning, ensuring that projects are not only feasible but also beneficial to the community.

I also had the opportunity to conduct field observations and surveys to assess the condition of existing infrastructure. This involved visiting construction sites, inspecting road conditions, and gathering data on traffic volume and flow. These observations were crucial for identifying areas that required maintenance or upgrading, helping to prioritize projects based on urgency and impact.

Participating in meetings with stakeholders was another significant aspect of my role. These meetings provided a platform for discussing project progress, addressing challenges, and aligning stakeholders with project objectives. I learned the importance of effective

communication in project management, ensuring that all parties are informed and aligned with project goals.

Additionally, I was involved in reviewing and preparing reports on project progress. This included analyzing data collected during fieldwork, summarizing findings, and making recommendations for future improvements. The process of compiling these reports helped me develop strong analytical and writing skills, essential for communicating complex information clearly and concisely.

Throughout my attachment, I worked closely with various departments within the Ministry, including the Civil Engineering Department and the Vehicle Inspection Unit. This collaboration provided insights into how different departments contribute to the overall objectives of the Ministry, highlighting the importance of interdisciplinary teamwork in achieving successful project outcomes.

Overall, my experience at the Transport Mechanism Unit was invaluable, offering a comprehensive understanding of the practical aspects of transportation planning and management. It equipped me with the skills and knowledge necessary to contribute effectively in this field, while also providing a deeper appreciation for the complexities and challenges involved in infrastructure development.

The SIWES programme was an invaluable learning experience, offering numerous insights into the practical aspects of transportation planning and management. Some of the key lessons I learned include:

1. **Importance of Interdisciplinary Collaboration**: I observed firsthand how different departments within the Ministry work together to achieve common goals. This collaboration is crucial for ensuring that projects are well-rounded and address various aspects of infrastructure development.
2. **Adaptability in Project Management**: The dynamic nature of infrastructure projects taught me the importance of being adaptable. Changes in project scope, timelines, or budgets require quick adjustments to ensure that projects remain on track.
3. **Community Engagement**: Engaging with local communities is essential for successful project implementation. Understanding community needs and concerns helps in designing projects that are more likely to be accepted and supported by residents.
4. **Technological Integration**: The use of modern technologies such as GIS mapping and traffic simulation software can significantly enhance the efficiency and accuracy of transportation planning. These tools help in analyzing traffic patterns, predicting future needs, and optimizing infrastructure design.
5. **Environmental Considerations**: Ensuring that projects are environmentally sustainable is a critical aspect of infrastructure development. This involves conducting thorough environmental impact assessments and incorporating green technologies into project designs.
6. **Budgeting and Resource Management**: Effective budgeting and resource allocation are vital for project success. Understanding how to manage resources efficiently helps in maximizing project outcomes while minimizing costs.

7. **Communication Skills**: Developing strong communication skills is essential for effective collaboration with colleagues, stakeholders, and community members. Clear communication helps in avoiding misunderstandings and ensures that all parties are aligned with project goals.
8. **Problem-Solving and Critical Thinking**: Infrastructure projects often present unexpected challenges. Developing problem-solving skills and learning to think critically are essential for addressing these issues effectively and finding innovative solutions.
9. **Regulatory Compliance**: Understanding and complying with regulatory requirements is crucial for avoiding legal issues and ensuring that projects meet safety and environmental standards.
10. **Time Management**: Managing time effectively is vital for meeting project deadlines and ensuring that tasks are completed efficiently. Prioritizing tasks and setting realistic timelines are key skills learned during the programme.
11. **Teamwork and Leadership**: Working in a team environment taught me the importance of teamwork and leadership. Contributing to a team and sometimes leading smaller projects helped me develop leadership skills and understand how to motivate team members to achieve common goals.
12. **Continuous Learning**: The SIWES experience highlighted the importance of continuous learning in a rapidly changing field like transportation planning. Staying updated with the latest technologies and best practices is essential for remaining relevant and effective in the industry.
13. **Risk Management**: Identifying and mitigating risks is a critical aspect of project management. Learning how to assess potential risks and develop strategies to mitigate them was a valuable lesson from the programme.

14. **Stakeholder Management**: Managing stakeholder expectations and ensuring that their needs are met is crucial for project success. This involves understanding the interests of various stakeholders and communicating effectively with them throughout the project lifecycle.
15. **Project Monitoring and Evaluation**: Regularly monitoring project progress and evaluating outcomes are essential for ensuring that projects meet their intended objectives. This process helps in identifying areas for improvement and making necessary adjustments.

3.2 TOOLS AND EQUIPMENT USED

During my attachment, I had the opportunity to work with a wide array of tools and equipment that are essential for transportation planning and management. These included:

- **GIS Mapping Software**: Used for analyzing spatial data and planning infrastructure projects. This software allowed us to visualize data in a geographic context, which was invaluable for understanding traffic patterns and planning new infrastructure projects.
- **Traffic Simulation Software**: Utilized to model traffic flow and predict future traffic patterns. This helped in identifying potential bottlenecks and designing solutions to mitigate them.
- **Surveying Equipment**: Employed for conducting field surveys to assess infrastructure conditions. This included using GPS devices, levels, and other surveying tools to gather precise data on existing infrastructure.
- **Project Management Software**: Used for tracking project progress and managing timelines. This software enabled us to monitor project milestones, allocate resources efficiently, and make adjustments as needed.

- **Communication Devices**: Utilized for maintaining communication with team members and stakeholders during fieldwork. This included mobile phones, two-way radios, and other devices that ensured we could stay connected even in remote areas.
- **Personal Computers and Laptops**: Used for data analysis, report writing, and presentations. These devices were essential for processing data collected during fieldwork and preparing reports that summarized our findings.
- **Data Loggers**: Employed to collect traffic volume data and other traffic metrics. These devices provided valuable insights into traffic patterns, helping us understand how different factors influence traffic flow.
- **Environmental Monitoring Equipment**: Used to assess environmental impacts of projects. This included devices for measuring air quality, noise levels, and other environmental factors that could be affected by infrastructure projects.

3.3 SAFETY PRECAUTIONS

Safety was a top priority during my SIWES programme. The Ministry emphasized the importance of adhering to safety protocols, especially during fieldwork. Some of the safety precautions included:

- **Personal Protective Equipment (PPE)**: Wearing PPE such as hard hats, safety vests, gloves, and safety glasses during site visits. This was crucial for protecting us from potential hazards like falling objects or sharp edges.
- **Risk Assessment**: Conducting thorough risk assessments before commencing fieldwork to identify potential hazards. This involved evaluating the site conditions, weather, and other factors that could pose risks to our safety.
- **Emergency Procedures**: Being aware of emergency procedures and protocols in case of accidents. This included knowing the location of first aid kits, fire extinguishers, and emergency contact numbers.

- **Regular Safety Briefings**: Participating in regular safety briefings to stay updated on safety protocols and best practices. These briefings were essential for ensuring that everyone was aware of their roles and responsibilities in maintaining a safe working environment.
- **Vehicle Safety Checks**: Ensuring that vehicles used for fieldwork were in good condition. This included checking tire pressure, brakes, and other critical systems to prevent accidents.
- **Weather Monitoring**: Monitoring weather conditions to avoid working during hazardous weather conditions like heavy rain or extreme heat. This was important for preventing accidents and ensuring that we could work safely.

3.4 CHALLENGES FACED DURING MY SIWES PROGRAMME

Despite the valuable learning experience, I faced several challenges during my SIWES programme. These included:

- **Limited Resources**: Sometimes, there were constraints in terms of resources, which affected the pace of project implementation. This required us to be creative in finding solutions with the available resources.
- **Bureaucratic Processes**: Navigating through bureaucratic processes could be slow and challenging, impacting project timelines. This taught me the importance of patience and persistence in overcoming administrative hurdles.
- **Technical Challenges**: Encountering technical issues with equipment or software required quick problem-solving skills to resolve. This involved troubleshooting, seeking assistance from colleagues, or consulting manuals to find solutions.
- **Time Management**: Balancing multiple tasks and responsibilities within tight deadlines was a significant challenge. This required prioritizing tasks effectively and managing my time efficiently to meet project requirements.

- **Communication Barriers**: Occasionally, there were communication barriers with stakeholders or team members, which needed to be addressed promptly to avoid misunderstandings. This highlighted the importance of clear and effective communication in project management.
- **Environmental Factors**: Dealing with environmental factors like weather conditions or natural obstacles during fieldwork presented additional challenges. This required flexibility and adaptability to adjust plans according to changing environmental conditions.
- **Stakeholder Expectations**: Managing stakeholder expectations and ensuring that their needs were met was another challenge. This involved understanding the interests of various stakeholders and communicating effectively with them throughout the project lifecycle.

Overall, the SIWES programme provided a comprehensive learning experience that equipped me with practical skills and knowledge essential for a career in transportation planning and management. Despite the challenges faced, the experience was enriching and helped me develop a deeper understanding of the complexities involved in infrastructure development.

CHAPTER FOUR

SUMMARY, CONCLUSION, AND RECOMMENDATION

4.1 SUMMARY

This report summarizes my experiences and learning outcomes from the SIWES programme at the Kwara State Ministry of Works and Transport. The programme, which lasted for 14 weeks, provided a comprehensive insight into the practical aspects of transportation planning and management. I was attached to the Transport Mechanism Unit, where I participated in various activities such as project planning, field observations, and stakeholder meetings.

During my attachment, I gained valuable knowledge about the importance of interdisciplinary collaboration, adaptability in project management, and community engagement. I also learned about the role of technology in enhancing transportation planning, including the use of GIS mapping and traffic simulation software. Additionally, I developed skills in budgeting, resource management, and communication, which are essential for effective project implementation.

The programme also highlighted the challenges faced in infrastructure development, such as limited resources, bureaucratic processes, and technical issues. Despite these challenges, the experience was enriching and provided a deeper understanding of the complexities involved in transportation planning and management.

4.2 CONCLUSION

In conclusion, the SIWES programme at the Kwara State Ministry of Works and Transport was a transformative experience that equipped me with practical skills and knowledge essential for a career in transportation planning and management. The programme not only enhanced my theoretical understanding but also provided hands-on experience in managing real-world projects.

The lessons learned from this experience are invaluable, ranging from the importance of teamwork and leadership to the need for continuous learning and adaptability in a rapidly changing field. The programme also underscored the significance of environmental sustainability and stakeholder management in ensuring that projects meet their intended objectives while minimizing negative impacts.

Overall, the SIWES programme was a critical component of my academic journey, bridging the gap between theoretical knowledge and practical application. It prepared me to contribute effectively in the field of transportation planning and management, addressing the complex challenges faced by urban and rural communities alike.

4.3 RECOMMENDATION

Based on my experiences and observations during the SIWES programme, I recommend the following:

1. **Enhanced Resource Allocation**: The Ministry should prioritize resource allocation to ensure that projects are adequately funded and equipped to meet their objectives. This could involve exploring alternative funding sources or optimizing existing budgets.
2. **Technology Integration**: The Ministry should continue to invest in modern technologies such as GIS mapping and traffic simulation software to enhance the efficiency and accuracy of transportation planning. Training programs should be implemented to ensure that staff are proficient in using these technologies.

3. **Community Engagement Initiatives**: The Ministry should strengthen community engagement initiatives to ensure that projects are aligned with community needs and preferences. This could involve regular town hall meetings and surveys to gather feedback from residents.
4. **Professional Development Programs**: The Ministry should establish professional development programs for its staff to enhance skills in areas such as project management, communication, and environmental sustainability. This would help in addressing the challenges faced during project implementation.
5. **Inter-Agency Collaboration**: The Ministry should foster stronger collaborations with other state and federal agencies to leverage resources and expertise. This could involve joint projects or sharing best practices in transportation planning and management.
6. **Environmental Sustainability Practices**: The Ministry should emphasize environmental sustainability in all projects, ensuring that infrastructure developments are balanced with environmental stewardship. This could involve conducting thorough environmental impact assessments and incorporating green technologies into project designs.
7. **Safety Protocols**: The Ministry should continue to emphasize safety protocols during fieldwork, ensuring that all personnel are equipped with necessary safety gear and trained in emergency procedures.