TECHNICAL REPORT

ON

STUDENTS INDUSTRIAL WORK EXPERIENCE SCHEME

(SIWES)

Held At

KWARA STATE MINISTRY OF WORK AND TRANSPORTATION

AHMADU BELLO WAY, G.R.A, ILORIN, KWARA STATE.

BY

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SUBMITTED TO:

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DEDICATION

I dedicated this report to Almighty Allah, the Alpha and Omega, the founder of everything.

And also to my parents' **MR. AND MRS. OLALERE** who happens to be the strong foundation of my academic journey.

ACKNOWLEDGEMENT

All thanks to Allah for making this SIWES a reality. My profound gratitude goes to the Head of Civil Engineering Department, Kwara State Polytechnic, Ilorin, Kwara State for his word of advice.

I wish to express my sincere appreciation to some of my lecturers, for the great wisdom and knowledge impacted in me.

I also used this medium to appreciate the support of my parents, **MR. AND MRS. OLALERE** for their physical, moral, spiritual and financial supports that was given to me during the course of my SIWES programme.

My appreciation will not be completed if I fail to appreciate my SIWES based-coordinator SIWES based-supervisor other staff in the organization.

ABSTRACT

This report gives the account of the training I undergone at Kwara State Ministry of Works and Transport Ilorin, Kwara State, Nigeria. It includes all the experience I acquired during the course of my SIWES at the Organization.

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CHAPTER ONE

INTRODUCTION

Students Industrial Work Experience Scheme (SIWES) is a very big aid and a stepping stone to life after school. It is an opportunity given to students to put into practice most of the things that were taught as theory by lecturers in the Institution.

Kwara State Ministry of Work and Transport has been a great aid to this programme because it gives more enlightenment on what surveying is all about. As a result of this, SIWES gives students more orientation and exposure to students in their course of training.

MEANING OF SIWES

Students Industrial Work Experience Scheme (SIWES) is the accepted skills training programme, which forms part of the approved minimum academic standards in the various degree programmes for all the Nigerian Universities. It is provided to bridge the gap that exists between the theory and practical.

It is aimed that exposing students to machines and equipment, professional work methods and way of safeguarding the work areas and workers in industries and other organizations.

OBJECTIVE OF SIWES

- To prepare students for the work situations they are likely to meet after graduation
- To provide an avenue for students in the Nigerian Institution to acquire industrial skills and experience in their course of study
- To strengthen employer's involvement in the entire educational process of preparing institution graduates for employment in industry
- To provide students with an opportunity to apply their theoretical knowledge in real work situation, thereby bringing the gap between institution work and actual practice.

- To expose students to work methods and techniques in handling equipment and machinery that they may not available in universities.

HISTORY OF SIWES IN NIGERIA

In the earlier stage of science and technology education in Nigeria, students were graduating from their respective institution without any technical knowledge or working experience. It was in this view that students undergoing science and technology related courses were mandated for students in different institution in the view of widening their horizons so as to enable them have technical knowledge or working experience before graduating from their various institutions. The Students Industrial Training Funds (ITF) 1973 to enable students of tertiary institutions have basic knowledge of industrial works base on their course of study before the completion of their program in their respective institutions. The scheme was designed to expose the students to industrial environment and enable them develop occupational competencies so that they can readily contribute their quota to National economic and technological development after graduation.

The major background behind the embankment of students in SIWES was to expose them into industrial environment and enable them develop occupational competencies so that they can readily contribute their quota to national economical and technological development after graduation. The major benefit acquiring to students who participate consistently in SIWES are skills and competencies they acquired.

The relevant production skill remain the part of the recipients of industrial training as long as assets which cannot be taken away from them. This is because the knowledge and skills acquired through training are internalized and become relevant when required to perform jobs or functions.

CHAPTER TWO

OVERVIEW OF KWARA STATE MINISTRY OF WORKS AND TRANSPORT

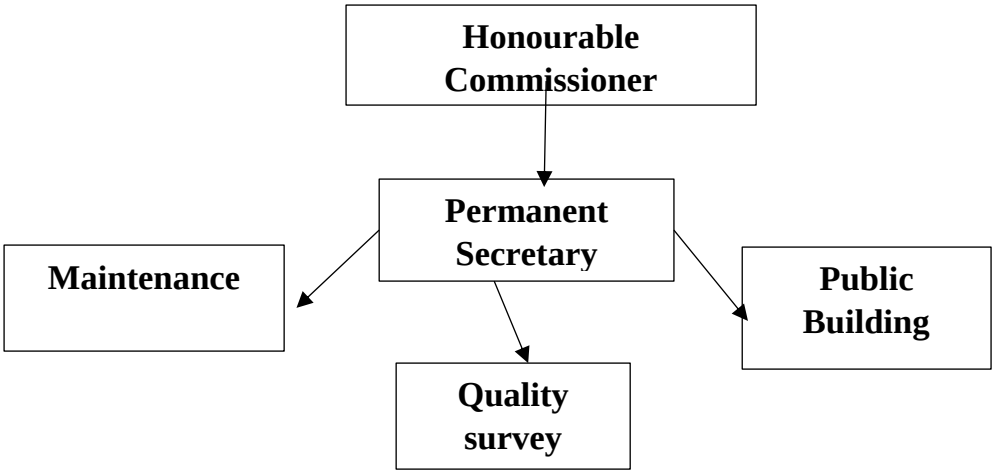
Kwara State Ministry of Works and Transport has been a great assets to this programme because it gives more enlightenment and practical aspect of what civil engineering as a course is really up to. It gives students more practical aspects of what Geo- informatics is all about. As a result of this, SIWES gives students more orientation and exposure to students in their course of training.

The office of the surveyor General of Kwara State is a multi-disciplinary establishment comprising of professionals and technical staff in surveying, Geo-informatics, photogrammetary, cartography, printing, photography, carpentry and electrical works. It is responsible for the formulation or execution of policies and projects of the state on issues relating to surveying, mapping, geo-spatial information and General Land Administration and Management.

BRIEF HISTORY OF THE ORGANIZATION

In 1984 under the administration of Governor Gbolahan Mudasiru, the Ministry of Transportation was merged with the Ministry of Works and became the Ministry of Works and Transport. The ministry was set up for two main objectives: To set up a centralized transit system within the metropolis. Structurally, the Ministry has undergone some changes in recent times aimed at ensuring the effective discharge of its mandate. It is presently structured into Eleven (11) professional departments and seven (7) units. Abdulquawiy Abdulganiyu Olododo is a Nigerian politician, entrepreneur, and engineer. He currently serves as the Commissioner for Works in Kwara State The Ministry of Transportation is a branch of the federal government of Nigeria responsible for watching the movement of people and goods across the country. Sa'idu Ahmed Alkali is the Minister of Transportation. The ministry oversees road vehicles, aviation, and rail transport.

ORGANOGRAM OF THE ORGANIZATION



SERVICES PROVIDED BY THE ORGANIZATION:

- Surveying
- Site planning
- Building services
- Woodwork
- Carpentry
- Construction services

CHAPTER THREE

DESCRIPTION OF WORKDONE

I learnt site clearing activities for the ongoing road construction at Ganiki area, Sango Ilorin. We make use of bulldozer from range 00 to 0+ to 5oom. We also learnt about setting out excavating of casting of drainage.

I was taught about the running level to determine the flow of run-off water is in progress by team of surveyor. Site inventory and measurement was taken by ministry engineers at ongoing road construction at Ganiki, Sango area, Ilorin. Casting of body of the drainage begin at R.H.S using 1:3:6 concrete mixed designed.

Setting out for excavation of drainage trech begin from 0+ 100 to 200m by team surveyor using surveying equipment at R.H.S using excavation machine. Casting of base of drainage continue at Ilorin, with the formation of framework in progress by carpenter using 1:2:4 concrete mix design and the spacing of the iron is 200mm 0% with 100mm thicker.

Formation of framework in progress by carpenter using black oil and diesel to lubricate the surface of the board. Casting of body of the drainage begin at R.H.S using 1:3:6 concrete mixed designed. Casting of the side wall of the drain using power vibration for compaction.

Place of reinforcement iron and casting of the base drainage from drainage 0+ 200 to 0+ 300 and popping of framework. Back bending schedule is in progress by the team iron bender using 10mm iron for both main and distribution by using 200mm spacing. Casting of drainage wall of (0.6m x 0.6m) using the same concrete design mixing ratio.

Propping of form work for casting of side walls in progress by the team of carpenter and it was well designed and firmed to give a required shape. Casting of side wall of the drainage 0+ 200mm to drainage 0+ to 300mm and the mixed designed was confirmed to 1:2:4 according to specification.

Excavation of drainage work continues with the introduction of another technique to the hardpan. with the formation of framework in progress by carpenter using 1:2:4 concrete mix design and the spacing of the iron is 200mm 0% with 100mm thicker.

I learnt about the running level to determine the flow of run-off water is in progress by team of surveyor. Site inventory and measurement was taken by ministry engineers at ongoing road construction at Ganiki, Sango area, Ilorin. Casting of body of the drainage begin at R.H.S using 1:3:6 concrete mixed designed.

TECHNICAL SKILLS ACQUIRED

Below are list of skills I acquired during my **Student Industrial Work Experience Scheme** at **Kwara State Ministry of Works and Transport**

Deep knowledge in understanding construction works.

- Ability to make site clearing preparation
- Ability to make use concreate mix design.
- Ability to make casting of walls.
- Ability to excavate water or gutter drainage.
- Learning how to use popping for different framework.

SOCIAL AND FUNCTIONAL SKILLS ACQUIRED

- ✓ Enhanced communication skills.
- ✓ Ability to identify and solve problems relating to construction work
- ✓ Decision making critical thinking, organizing and planning.
- ✓ Ability to work with team.
- ✓ Enhanced teaching and effective learning skills.
- ✓ Good mapping orientation skill

PERSONAL INPUT TO THE ORGANIZATION

- Teaching and assisting students (Clients) through their lessons.
- Assist students with their codes when not running.
- Running of errands to boost activities in the workplace.
- Check and work with colleague's when challenges occurs.
- Help in arrangement and mapping out land.

CHALLENGES ENCOUNTERD

- ❖ Difficulty in seeking for SIWES attachment
- ❖ Lack of transportation fee.
- ❖ I was not paid either by SIWES or the place of my attachment.
- ❖ There are no standard equipment's for learning and practical.
- ❖ The company lacks proper SIWES orientation on how to train student.

CHAPTER FOUR

CONCLUSION AND RECOMMENDATIONS

CONCLUSION

My three (3) months Student Industrial Work Experienced Scheme at **Kwara State Ministry of Works and Transport** was a huge success and a great time of acquisition of knowledge and skills. Through my training I was able to appreciate my chosen course of study even more, because I had the opportunity to blend the theoretical knowledge acquired from school with the practical hands-on application of knowledge gained here to perform very important tasks that contributed in a way to my productivity in the company.

My training here has given me a broader view to the importance and relevance of surveying in the immediate society and the world as a whole, as I now look forward to impacting it positively after graduation, I have also been able to improve my communication and presentation skills and thereby developed good relationship with my fellow colleagues at work. I have also been able to appreciate the connection between my course of study and other disciplines in production a successful result.

RECOMMENDATIONS

- School should provide a place of attachment for student
- Allowances should be paid to students during their programme just like NYSC and not after. This would help them a great deal to handle some financial problems during their training course.
- Supervisor should always visit student weekly in their various places of attachment.

REFERENCE

PAPER WORK

- Student industrial work experienced scheme 2020/2021 handbook
- Kwara State Ministry of Works and Transport manual by industrial supervisor

LINK

- http://www.w3schools.com