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BUSITEMA UNIVERSITY APARAI CAMPUS

FACILTY OF AGRICULTURE AND ANIMAL SCIENCE

DAPARTEMENT OF AGRI BUSINESS AND EXTENSION

**AN INTRISURIAL TRIAING REPOT CARRIED OUT AT ABI-ZOAL
AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITIUTE**

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COURSE: DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

**AN INDUSTRIAL TRAINING REPORT SUBMITTED TO BUSITEMA
UNIVERSITY ARAPAI CAMPUS FACULTY OF AGRICULTURE AND ANIMAL
SCIENCE, DEPARTEMENT OF AGRI-BUSINESS AND EXTENSION IN PARTIAL
FULFILLMENT OF THE AWARD OF DIPLOMA IN CROP PRODUCTION AND
MANAGEMENT**

28th February to 06th May 2022

DATE OF SUBMISSION 17/05/2022

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DECLARATION

I declare that this report is a result of my own work, effort and commitment in the field and it has never been submitted to any higher institution of learning for the award of Diploma in Crop Production and Management.

Signature.....

Date.....05/06/2022.....

OLINDI INNOCENT



APPROVAL

This internship report has been submitted under the approval of;

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Dr. John K Walakira
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Sign..... *NH*

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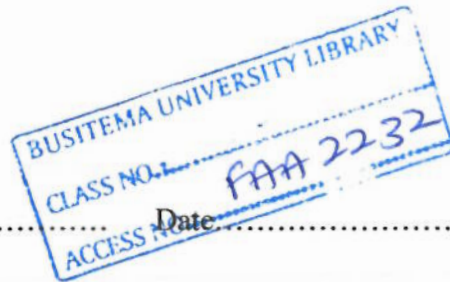
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Date..... 5/5/2022

University Supervisor
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Sign.....



DEDICATION

I dedicate this report to my dear beloved parents Mr. Olindi Victor and Mrs. Pacurema Roseline, my dear brethren Jakisa Derick, Ofoyrwoth Chrispus, Rwothomio Jeremy Opakrwoth Jovian and Mugumio Raphael; who have tirelessly supported me throughout my academic struggle. May the Almighty God should reward you as you continue to support my studies. Not forgetting my field supervisor Ms. Nangobi Nusula Ndhokero who help me throughout the internship.



ACKNOWLEDGEMENT

I thank God for the life and protection he has offered me during my time in the field and making me to carry out my field work at ABI-Zonal agricultural Research and development institute (ABI-ZARDI) where I was able to learn more skills and practical aspects.

I also wish to extent my sincere thanks to the scientists, technicians and the administration of ABI-ZARDI for the knowledge, guidance and support offered to me during the training may Almighty God bless them.

I also extend my acknowledgment to the administration of Busitema university Arapai campus for their support through supervision, computer training and seminars which enabled me to produce this report.

My highly appreciation goes to my father Mr. Olindi Victor for the support he has offered me throughout my education career at large my God bless you daddy.

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LIST OF ABBREVIATIONS

| | |
|--------|--|
| NARO; | National Agricultural Research Organization |
| DCP; | Diploma in Crop Production and Management |
| BUAC; | Busitema University Arapai campus |
| HRO; | Human Resource Officer |
| VTC; | Variety Trial Center |
| DFI; | District Farm Institute |
| IPM; | Intergraded Pest Management |
| EIL; | Economic Injury Level |
| CMD; | Cassava mosaic Disease |
| ARDC; | Agricultural Research and Development Centre |
| WNAEZ; | West Nile Agro-ecological Zone |
| CGA; | Certificate in General Agriculture |
| DCP; | Diploma in Crop Production and Management |
| DAP; | Diploma in Animal Production and Management |
| IT; | Industrial Training |
| ARRP | Animal Resource Research Program |

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Table 1 showing field pests

Table 2 showing common plant diseases

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ABSTRACT

The field attachment was done at ABI-ZARDI. It is a Public Agricultural Research Institute mandated to conduct and manage applied and adaptive agricultural research, develop and disseminate improved agricultural technologies relevant to West Nile Agro-ecological zone.

During this field attachment, I gained more experiences in various agricultural units such as livestock, crop entomology, crop agronomy, aquaculture, apiculture, soil science, postharvest and harvest handling, agro-forestry, and farm management.

The method we used to acquire this knowledge is active participation through observation, discussion, hands-on experience and secondary information from the library.

Although the period was successfully, however, there were some challenges faced during this period of my industrial training such as in adequate accommodation for internship students at the institute and within the area around, climatic changes such as hot sunshine and rainfall, long distance of the institute from Arua town and transport was the greatest challenge faced over all.

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Chapter 1 CHAPTER ONE

1.0 INTRODUCTION

This chapter explains about the objectives of the internship and background of the host organization.

1.1 OBJECTIVES OF THE INTERNSHIP

- To equip me with work experience and new technologies in science and research.
- To compare classroom work with field activities.
- To gain more skills in the field through practice.

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1.3 Background

Abi Zonal Agricultural Research And Development Institute (ABI-ZARDI) is a semi-autonomous Public Agricultural Research Institute (PARI) of Uganda established by the National Agricultural Act of 2005, operating under the National Agricultural Research System (NARS) as a component of National Agricultural Research Organization (NARO). It is headed by the Director of Research. It is located in Manibe sub-county, Arua district

As Zonal Agricultural Research and Development Institute for West Nile Agro Ecological Zone, the institute's focal activity is to conduct applied and adaptive research in production of crop, livestock, aquaculture, agro forestry and soil fertility management before new agricultural technologies are transferred to farmers and other stake holders in the region. It conveys its agricultural activities under programs namely; Animal Resource Research Program (ARRP), Crop Sciences and Natural Resource Research Program (CS&NRM) and Technology Promotions Program each headed by a Research Officer.

1.4 Vision

A center of excellence spear heading generation and dissemination of improved, appropriate and demand driven technologies in collaboration with partners and clients for sustainable development

To contribute to improved farming of West Nile for food security and poverty eradication.