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**A REPORT ON INDUSTRIAL TRAINING CONDUCTED AT THE NATIONAL CROPS
RESOURCES RESEARCH INSTITUTE NAMULONGE.**

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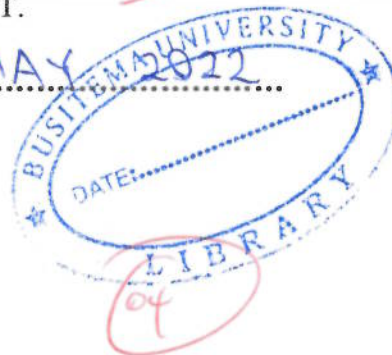
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EXTENSION AS A PARTIAL FULFILLMENT FOR A DIPLOMA IN CROP PRODUCTION
AND MANAGEMENT.

DATE OF SUBMISSION: 18th MAY 2022



DECLARATION

I OKURUT ENOCH LAZARUS hereby would like to take this opportunity to claim whole ownership of this report and assure that it has not already received academic credit from another institution for any academic award.

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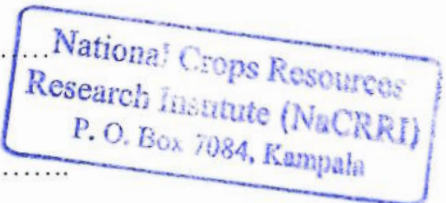
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DEDICATION

I would like to dedicate this report to Mr. Okurut Stephen Ojangole who has aided my academic journey over the years and helped shape me into a better human being in every step of my life journey.

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ACKNOWLEDGEMENT

I take this opportunity to thank my fellow course-mates that undertook this industrial training journey together with me and I thank NaCRRI staff as a whole for their adequate attention delivered to us. I would also love to send my sincere thanks to NaCRRI for their willingness to educate and train us throughout the industrial training.

A handwritten signature in black ink, consisting of a long, sweeping horizontal stroke followed by a vertical stroke that curves slightly to the right, ending in a small hook.

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LIST OF ABBREVIATIONS

NaCRRRI- National Crops Resources Research Institute

DCP- Diploma in Crop Production

NARO- National Agricultural Research Organisation

BUAC- Busitema University Arapai Campus

Mr.- Mister

Mrs.- Misses

Md. -- Madam

NERICA- New Rice For Africa

e.g. - for example

etc-- extra.

fig. - figure

i.e. - that is

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ABSTRACT

Industrial training is one of the core course modules for all students at Busitema University Arapai Campus and I carried out my training at NaCCRI - Namulonge. This industrial training reports contains the details concerning my industrial training at the institute for the ten weeks I was there through an amazing academic journey and adventure.

Chapter one of this report comprises of the introduction where I majorly talk about the institution and the way it operates and conducts its activities as a research institution for crops in Uganda. Chapter two is the description of all the activities we carried out throughout the seven sections we were allocated under a number of field supervisors who ensured that they expanded our practical knowledge and hands on experience in the different agricultural fields with various activities. We attended seven sections in total spending one or two weeks of study per section and these were Administration, Farm workshop, Horticulture and oil palm, Legumes, Cereals, Root crops and Biosciences. In the first week we had orientation and were allocated into groups and assigned field supervisors. We then had a study on a tractor and other farm implements in the farm workshop section, for crop sections we had studies on crop varieties, agronomy, pests and diseases and their identification and control then finally in the biosciences section we were taken to some laboratories i.e. the molecular lab, tissue-culture lab, and the nutrition lab. Then in chapter 3 I describe the impact of the attachment to me as a student including skills gained like the skill of breeding in the root crops section, responsibilities undertaken e.g. digging of holes and transplanting of cabbage seedlings; influence on my future career plans and then correlation of activities with lecture knowledge as I was putting theory into practice in the field.

I then conclude this report in chapter four as NaCCRI is a very good well equipped research institution and made some recommendations including allocation of more staff to attend to the internship students as some allocated people were sometimes busy.

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CHAPTER ONE

1.0 INTRODUCTION

Industrial training is a course unit conducted once by every student at BUAC before graduation from one of the various farms or institutes within Uganda chosen by the individual. This is to ensure field practical knowledge and skill acquisition. I personally chose to conduct my Industrial Training at NaCRRI, Namulonge and the training lasted for ten weeks.

1.1 HISTORICAL BACKGROUND

The National Crops Resources Research Institute (NaCRRI) formerly known as Namulonge Agricultural and Animal Production Research Institute, is one of the Research Institutes under the policy guidance of the National Agricultural Research Organisation (NARO) which was established in 1949 by the Empire Cotton Growing Corporation of Britain. Namulonge was handed over to the government of Uganda in 1972 and research on other crops and animal production was introduced in 1980's. The crops included maize, cassava, sweet potato, rice, soybean, sunflower, groundnuts, simsim and wheat. Agroforestry was also introduced to the institution in this period. Namulonge supervised the collection of weather data, processing and transmission of the information to the department of meteorology and Agriculture.

1.2 LOCATION OF NaCRRI

NACRRI is located in Namulonge village, Busukuma sub county, Wakiso district in central region of Uganda, 27kilometers along Gayaza-Zirobwe road

1.3 PRESENT MANDATE

With the re-organization of Agricultural research and the creation of the National Agricultural Research Organization (NARO), Namulonge became one of the Research institutes of NARO with the following programmes.

RESEARCH PROGRAMS

- Legumes (Soybean and Beans)
- Root crops (Cassava and Sweetpotatoes)
- Cereals (Maize and Rice)
- Horticulture and Oil palm