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**FIELD ATTACHMENT REPORT CONDUCTED AT NATIONAL CROP RESEARCH  
RESOURCE INSTITUTE NAMULONGE (NACRRI)**

**FROM 20<sup>TH</sup> MAY TO 27<sup>TH</sup> JULY 2019**

**COMPILED BY**

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**AREPORT SUBMITTED TO THE AGRIBUSINESS AND EXTENSION DEPARTMENT  
FOR PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF  
DIPLOMA IN CROP PRODUCTION AND MANAGEMENT**



## DECLARATION

I MUKISA ERIA, hereby declare that this report of internship is my original work and has been compiled by me using my knowledge, skill and materials I acquired both in class and during time of field practices at Namulonge Crop Resource Research Institute. It has not been submitted to any other institution of research and higher level of learning for any award of any academic qualification.

NAME... MUKISA ERIA

SIGN... 

DATE... 25<sup>th</sup> / 07 / 2019

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## APPROVAL

This report has been successfully done, supervised or coordinated by;

STUDENT

NAME: MUKISA ERIA

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DATE: 25<sup>th</sup> 07/2019

TRAINING SUPERVISOR

NAME: Luzina R. Francis

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DATE: 25/07/19

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## **DEDICATION**

I dedicate this great piece of work to my beloved parents Mr. OCHWO ANTHONY & Mrs. ABBO MARGRATE, my brothers and sisters, relatives and friends. May the Almighty God have mercy on them and reward them abundantly for the financial support in my studies. I also dedicate it to the management of NaCRRRI- Namulonge, more especially the field supervisors who devoted whole heartedly to essentially offer me all the necessary guidance and assistance throughout the period of attachment.

I pray to God to bless them and live longer.



## **ACKNOWLEDGEMENT**

First and foremost I wish to express my gratitude to the Almighty God for gifting me with life and out of trouble for the whole of my internship period within a stipulated time.

I extend intensively personal sacrifice and greater self-discipline in order to work diligently over the entire industrial training period to collect data and refine it into a report.

Let me take this opportunity to appreciate the academic staff of Busitema University Arapai campus and I am deeply indebted to my mind academic supervisor **Mrs. GUMISIRIZA COSTA**

But this intensive effort would resolve to nothing so far most grateful to NaCRRI – Namulonge for granting me the opportunity to undertake the training at the organization more especially to the intern coordinator who devoted himself whole heartedly to essentially offer me a conducive environment to learn from and bridging the gap between internship students and field supervisors.

I must thank him without any loss of credit.

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### LIST OF ABBREVIATIONS

NaCRRI	:	National Crops Resources Research Institute.
NARO	:	National Agriculture Research Organization.
ZARDs	:	Zonal Agriculture Research Development Institutes.
GMOs	:	Genetically Modified Organisms.
IPM	:	Integrated Pest Management.
ATF	:	Applied Tropical Floriculture.
NARS	:	National Agriculture Research Systems.
JICA	:	Japan International Cooperation Agency.
IITA	:	International Institute of Tropical Agriculture.
ARTP	:	Agriculture Research and Training Project.
NPK	:	Nitrogen Phosphorous Potassium.
SPVD	:	Sweet Potato Virus Disease.
CBB	:	Common Bean Blight.
BCMV	:	Bean Common Mosaic Virus.
Nam	:	Namulonge
Mak	:	Makerere
BUAC	:	Busitema University Arapai Campus.
DCP	:	Diploma in Crop Production and Management.
NE	:	North East
MAAIF	:	Ministry of Agriculture, Animal Industry and Fisheries.



## LIST OF TABLES AND FIGURES

### Tables;

1. Showing data collection on different parameters of oil palm.
2. Showing pathology of beans and their control measures.
3. Showing varieties of soybeans and their date of maturity.

### Figures;

1. Showing shoot bagging in maize
2. Showing measuring of leaf width in data collection of Chinese cabbage.
3. Showing threshing of harvested rice.
4. Showing trellising of tomatoes.



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**ABSTRACT**

This industrial training report contains four chapters and clearly describes the details of activities both practical and lectures that we performed at NaCRRI and these include ,HORTICULTURE & OIL PALM, CEREALS, LEGUMES, ROOT CROPS programmes as presented below;

**Chapter one;**

This chapter describes NaCRRI, the historical background, vision, mission and purpose, objectives of the training, the location map and the organization structure of NaCRRI.

**Chapter two;**

Here, I described the set of activities got involved in the four programmes at NaCRRI for example root crops (cassava, sweet potatoes), legumes (beans and soya beans), horticulture (solaneceous vegetables and fruits) and cereals (maize and rice). Under each section, various activities were done such as pathology, entomology, agronomy, data collection and breeding.

**Chapter three;**

This chapter summarizes the impacts of the attachment i.e. skills gained, responsibilities undertaken, influence of the attachment to my future career plans, correlation of the attachment activities with class room knowledge and the various challenges faced during the period of the attachment.

**Chapter four;**

This chapter contains the recommendations to NaCRRI and BUAC and conclusions, appendices, work plan and references.

## CHAPTER ONE

### 1.1 Introduction.

#### *Description of NaCRRI*

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NaCRRI- Namulonge is one of the public agricultural institutes under the policy guidance of NARO

The director of the institute is Dr. Godfrey Asea (PHD) plant breeding and the administrator is Ali Kabogoza.

### 1.2 Location of the Institution (NaCRRI)

NaCRRI is one of the six NARIs under the policy guidance and co-operation of the National Agriculture Research Organization (NARO). It is located at bimodal rainfall region at latitude 0032° NE. It is located north of Kyadondo constituency, Wakiso district and 27km north of Kampala city, central Uganda.

The place has a tropical wet and dry mild climate with slightly humid conditions with an average of 65%. The area has savanna vegetation with tall trees and the most dominant type of grass called *Panicum maximum*. The institute has 1188 hectares of land, of which 187 hectares are found at Sendusu where it hosts another organization IITA.

### 1.3 Historical background of NaCRRI

The NaCRRI formerly known as Namulonge Agricultural and Animal Production Institute, is one of the research institutes under the policy guidance of NARO which was established in 1949 by the empire cotton growing cooperation of Britain.

It was established to solely investigate problems related to cotton production with the countries of the British Empire.

It served Sudan, Kenya, Tanzania, Zambia, Malawi, Nigeria, Uganda, and Yemen among others. Uganda was chosen to be the regional center because it was centrally placed with exception of India, and was the largest producer of cotton in Commonwealth.

The Cotton Research Cooperation handed the institution to the Uganda government in 1972 and the institute continued as a cotton research station until 1980s when the research on other community crops and animal production was introduced. The crops that were introduced