

**AN INDUSTRIAL ATTACHMENT REPORT AT NATIONAL CROPS  
RESOURCES RESEARCH INSTITUTE (NaCRR)**

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**AN INDUSTRIAL ATTACHMENT REPORT SUBMITTED TO THE  
AGRIBUSINESS AND EXTENSION DEPARTMENT, BUSITEMA  
UNIVERSITY ARAPAY CAMPUS OF AGRICULTURE AND ANIMAL  
SCIENCE FOR PARTIAL FULFILLMENT OF THE REQUIREMENT FOR  
THE AWARD OF DIPLOMA IN CROP PRODUCTION AND  
MANAGEMENT.**

**DATE:.....** 27<sup>th</sup>/07/2018

## DECLARATION

I Nayebare Abraham, hereby declare that this report was out of my own efforts during the period of industrial training at National Crops Resources Research Institute (NaCRRI) Namulonge.

Therefore this report has never been submitted for the award of a Diploma in Crop Production and Management.

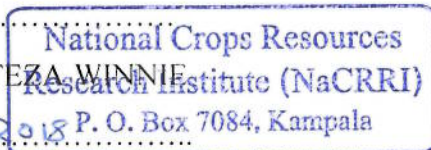
To confirm the university that this report is out of my efforts, it has been approved by;

THE TRAINING CO-ORDINATOR (NaCRRI)

SIGN: *[Signature]*

NAME: MADAM NANTEZA WINNIE

DATE: *30 July 2018*



ACADEMIC SUPERVISOR (BUAC)

SIGN:.....

NAME:.....

DATE:.....

STUDENT (BUAC PERSUING DCP)

SIGN: *[Signature]*

NAME: NAYEBARE ABRAHAM

DATE: *27/07/2018*

## DEDICATION

I dedicate this piece of work to my beloved parents Mr. and Mrs. Mwebaze Francis, my sister Kanyesigye Cleria, my brothers Nabaasa Darius, Mugabi Vicent, Tumusiime Mania, friends and relatives. May the good Lord have mercy upon them and reward them abundantly for their support both spiritual and financial in my studies. I also dedicate it to the management of NaCRRI- Namulonge more especially to the supervisors who devoted heartedly to essentially offer to me all the necessary assistance and guidance through the period of this attachment.

I pray to God to grant them peace, wisdom and bless them and live longer.

(1)



## ACKNOWLEDGEMENT

I take this opportunity to thank the Almighty God for the care, protection and good health that was granted to me during the industrial training period and then NaCRRI- Namulonge for granting me the opportunity to undertake the training at the organization more especially to the intern coordinator, the farm manager and the field supervisors who worked together to give the necessary information and a conducive environment to make industrial training successful.

I also thank Busitema University (BUAC) for giving students the opportunity to offer such a module that equips both knowledge and skill to students.

I must thank everybody who contributed in all capacities without any loss of credit.



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## LIST OF ABBREVIATIONS

NaCRRRI	:	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/ FIGURES

### Tables;

1. Showing varieties of soya bean and days to maturity.
2. Showing varieties of rice and days to maturity.

### Figures;

1. Showing how shoot bagging in maize breeding is done.
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## ABSTRACT

This shows the summary of information contained in this report.

The report constitutes of four chapters.

Chapter one is mainly about NaCRRI- Namulonge, the organization where I carried out my training and it gives information about the background, mission, vision, location, general core functions and objectives of the study.

Chapter two is the main body of the report. It describes all the programs that I attended during the period of industrial training and these include; legumes, root crops, cereals and oil palm and horticulture programs and all the activities that were carried out in all the programs.

Chapter three summarizes the impact of industrial training to a student, skills gained, responsibilities undertaken during the training, the influence of the industrial training on the future career plans and how the training is related to classroom knowledge.

Chapter four gives the conclusion and recommendations, appendices, work plan, references and the organization structure of NaCRRI and the sketch map showing the location of NaCRRI.



## CHAPTER ONE

### 1.1. Introduction.

This module is under the curriculum of the University whereby students are allowed to apply.

### 1.2. Location of the Institution (NaCRRI)

NaCRRI is one of the six National Agriculture Research Institutes (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. The background of the institution.

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 Common Wealth.

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 included: maize, cassava, sweet potato, soya beans, sunflower, ground nuts, simsim and wheat among others. Fruits were also introduced such as mangoes, oranges and lemons. The institute also got involved in weather forecasting, data collection, processing and transmission of information to the departments of metrology and agriculture.

In 1993, NARO took over the supervision agency and separated the crops being researched whereby Serere involved in researching about semi-arid and arid crops like cereals like millet and sorghum and on tropical crops like legumes, root crops, and horticultural crops.

Currently, research is being carried out on pineapples under horticultural programs, vegetable crops such as egg plants, tomatoes and oil palm, cereal crops like rice, maize, and GMO are being researched about at NaCRRI.

### 1.4. General core functions/ objectives of the institution (NaCRRI)

To provide technical back stopping and capacity building to MAAIF, the ZARDs and other agencies dealing in Agricultural research.

To obtain crops that are resistant to diseases and biotic stress.

To build and sustain linkage and partnership with local, regional, and international research bodies.

To participate in problem identification and prioritization of research demands for National research agents.