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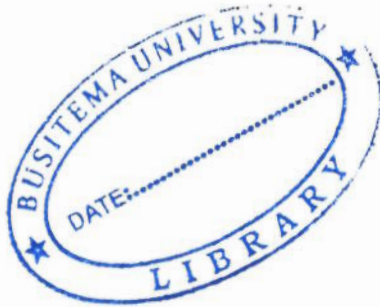
P.O. Box 236, Tororo, Uganda  
Gen. +256 - 45 444 8833  
Fax: +256 - 45 443651  
Email: info@adm.busitema.ac.ug  
www.busitema.ac.ug

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**AN INDUSTRIAL TRAINING REPORT CARRIED OUT AT THE NATIONAL SEMI-ARID  
RESOURCES RESEARCH INSTITUTE (NaSARRI)- SERERE DISTRICT**

**CONDUCTED FROM 28<sup>th</sup> FEB /2022 TO 6<sup>th</sup> /MAY / 2022**

**BY**



**AISO REBECCA**

**COURSE CODE: CGA 2109**

**REG.NO: BU/UP/2019/2024**

**S/N: 1900402024**

**Tel: 0776035597**

**E-MAIL: [becca19\\_aiso@gmail.com](mailto:becca19_aiso@gmail.com)**

**SUPERVISED BY**

**MR. JOSEPH OKIRING**

**TO BE SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION OF  
BUSITEMA UNIVERSITY - ARAPAI CAMPUS IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF A CERTIFICATE IN GENERAL AGRICULTURE OF  
BUSITEMA UNIVERSITY**

**MAY, 2022**

**DECLARATION**

I AISO REBECCA hereby declare that this industrial training report is my own original copy and has never been reproduced, copied or submitted to any institution for award of any paper.

I therefore present to you for the partial fulfillment of award of certificate in general agriculture of Busitema University.

Sign.....


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APPROVAL

Field supervisor:

Name..... Okiring Joseph

Sign..... 

Date..... 05/05/2022

Intern coordinator:

Name..... Okiring Joseph - Amara


Sign..... 

Date..... 05/05/2022



Director of Research, NaSARRI:

Name..... OBUO JOHN EMWATI

Sign..... 

Date..... 5/5/2022

Academic supervisor, BUAC:

Name.....

Sign.....

Date.....

## DEDICATION



I dedicate this report to my dear husband and to God Almighty who has enabled me to finish the training successfully.

## ACKNOWLEDGEMENT

My industrial training went successfully. I therefore give my sincere thanks to God for the health, love, knowledge, strength, wisdom and His divine protection that facilitated my success through the training up to this report.

All gratitude goes to those who supported me throughout the industrial training most especially my field supervisor, academic supervisor, EKURE BOAZ, WILLIAMZ ASHIDA, DICKENS, CHRISTINE AMAYO, FAITH AMUGE and EMMANUEL OKIRIA.

Great thanks go to the staff of Busitema University in their various capacities for their input in different ways making it possible for me to succeed in my industrial training.

To the director NARO and NaSARRI in particular, field technicians and field assistants for the knowledge, skills and support provided.

.All gratitude goes to my husband MR. GABRIEL OJWOK, my parents MR. OONYU JOHN and MRS AWOR FLORENCE, my siblings most especially MILLY ACEN, my aunties, friends , relatives, young Christian community, immaculate cathedral church, my university supervisor MR MAYANJA IBRAHIM and my field supervisor MR OKIRING JOSEPH for their support both physically and spiritually.

May God's benediction be upon you all.

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## LIST OF ABBREVIATIONS

- NaSARRI** : National Semi-Arid Resources Research Institute
- SARRI** : Serere Agricultural and Animal Resources Research Institute
- IT** : Industrial Training
- OPV** : Open Pollinated Varieties
- NARO** : National Agriculture Research Organization
- SECOW** : Serere cowpea
- SERENUT** : Serere groundnut
- BUAC** : bustema university arapai campus

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Fig 1. Selfing sunflower

Fig 2. Cotton diseases

Fig 3 seed dressing

Fig 4 green grams

## ABSTRACT

The industrial training was conducted at NaSARRI in Olio Sub County, Serere County, and Serere district which is located south of Soroti district about 27km from Soroti City. The main objective of the training was to produce practical or hands on orientated graduates who meet the job related competences and skills needed by their prospective employers.

During the training at NaSARRI, various activities were carried out which included: disease identification (blast) in finger millet, smut in sorghum, seed counting using manual seed counter in cotton, weighing of seeds in legumes, dressing of seeds in legumes, seed storing, rope marking, bulking, digitalization of data, packing of seeds in oil crops, scouting, tagging, emasculation, crossing, watering, plot, genotype, and Rep identification 100 seed count, grafting, potting, budding, making a yolk.

However, some challenges were encountered during the IT such as inadequate equipment for laboratory and data collection work, drought that adversely affects the experiments.

In conclusion, I gained a wealth of experience in regards to work and I am very optimistic that this industrial training will contribute significantly to my carrier development as an agricultural professional.

I recommend NaSARRI to purchase more equipment for laboratory use and data collection.

# CHAPTER ONE

## INTRODUCTION AND BACKGROUND

This chapter introduces you to the introduction, background, mission, vision, mandate, collaborators, location, research programmes, objectives of NaSARRI, and socio economic research.

### 1.0 Introduction

The industrial training was conducted for ten weeks from 28<sup>th</sup> feb to 6<sup>th</sup> may. NaSARRI. Is a short form for National Semi - Arid Resources Research Institute and internship training is generally pre-requisite for students in certain programs at all levels of higher education at the institute of higher learning to increase the level of work of the graduates and under graduates. The program was introduced to empower the training competence in terms and provides student with the opportunities in the work place to receive practical experience in terms of effective communication, technology development, team work, practices. procedures and regulations, professional perspective and reporting.

### 1.1 Background of NaSARRI

NaSARRI is one of the sixteen agricultural research organizations under National Agricultural Research organization (NARO) established by an Act of Parliament in 2005 (<http://www.nasarri.go.ke/index.php>).

NaSARRI was started in 1920 by the colonial government. It was by then called Serere Agricultural and Animal Research Organization (SAARI) after which it was to carry out Research for Semi-arid tropics and hence the name NaSARRI with support from the government of Uganda and several donors such as the world bank.

### 1.2 Location of NaSARRI

NaSARRI is one of the research institutes of National Agricultural Research Organization (NARO). Its located in the eastern agro-ecological zone in Serere district which was previously under Soroti district at altitude of 139 degrees north latitude 33degrees and 27 degrees east, 27 kilometers south west of Soroti <sup>city</sup> town. It's at an altitude of 3.078 feet above sea level with sandy loam soil and annual rainfall of 1972mm and bimodal distribution type.

### 1.3. Vision of NaSARRI.

To be a market leader in generation and dissemination of appropriate technologies for sustainable development in semi-arid areas