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PO Box 236, Tesero, Uganda
 Email: info@busitema.ac.ug
 www.busitema.ac.ug

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**BUSITEMA UNIVERSITY ARAPAI CAMPUS FACULTY OF AGRICULTURE AND
ANIMAL SCIENCES**

DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

**A REPORT OF INDUSTRIAL TRAINING CARRIED OUT @NACRRI NAMULONGE FROM
1ST MARCH 2022 TO 6TH MAY.**

COMPLETED BY

NAME: KAMWIINE SHARONE

REG.NO: BU/UG/2019/2914

TELL: 0786003380/0759046348

EMAIL: sharonekamwiine1@gmail.com

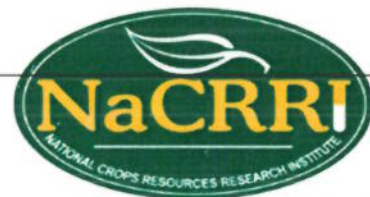
COURSE: DIPLOMA IN CROP PRODUCTION AND MANAGEMENT.

COURSE CODE: DCP 1208

TO BE SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION FOR THE
PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF ADIPLOMA IN
CROP PRODUCTION AND MANAGEMENT.

DATE OF SUBMISSION: 14th may 2022.

SIGNATURE : (Handwritten signature)



DECLARATION

I KAMWIINE SHARONE DECLARE that the information contained in this report is my own work compiled after my industrial training in NaCRRI, Namulonge and has never been presented to any institution of learning or for award of any education qualification.

DATE: 10th May 2022

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DEDICATION

I wish to dedicate this piece of work to my family, friends and staff NaCRRI for their tireless support, love and guidance towards the completion of this industrial training.

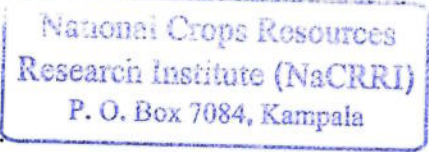
APPROVAL

The report submitted is approved by both the field and university supervisor under signed below

FARM MANAGER

Name : P. S. Sengendo

Signature : [Signature]



FIELD SUPERVISOR

Name: AKULLO REBECCA

f Signature: [Signature]

UNIVERSITY SUPERVISOR

Name: ETIAALH PATRICK

Signature: [Signature] 18/05/2022

ACKNOWLEDGMENT

First and foremost, my heartfelt thanks goes to the almighty God who has protected, provided, guided and enabled me to accomplish this course.

I take the opportunity to appreciate the academic staff of Busitema University Arapai Campus for opening my mind through exposing me to useful knowledge that aided me in carrying out my industrial training.

I also thank the staff of NaCRRI for their generosity and willingness to share their skills and knowledge with we the students.

Lastly, I extend my sincere gratitude to my family for their support towards accomplishment of this course.

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Fig 1: cabbage seedling transplanting

Fig 2: field marking

Fig 3: Inoculum preparation

Fig 3: sclerotium root rot assessment.

LIST OF ABBREVIATION

NaCRRI-National Crops Resources Research Institute.

DCP- Diploma in Crop Production and Management.

REG.NO- Registration number

NARO- National Agriculture Research Organization.

NGOs-Non-Governmental Organizations

CRBD- Completely Randomized Block Design.

OPVs-Open Pollinated Varieties.

NERICA- New Rice for Africa.

ABSTRACT

This industrial training report contains the details of practical activities carried out during the industrial training, skills gained, challenges, conclusions and recommendations at NaCRRI, this was carried out in six sections i.e., Administration, Farm workshop, Horticulture and palm oil, Cereals, Legumes and Root crops. Activities per section were conducted in one study week and other sections were assigned two weeks like legumes and root crops. These activities in a section were carried out under a specific program supervisor.

In administration section, orientation, induction and allocation were done throughout other research programs for a week. Farm workshop involved identification of tractor parts and farm implements and their operation. Legumes involved identification of varieties, Agronomy, entomology, pathology and breeding, horticulture involved nursery bed and field preparation, management and experimental designs. Cereal's breeding, field establishment, pest and disease identification and management through carrying out the above activities, I gained a lot of skills and knowledge for example in breeding, pathology, agronomy and pathology much as all were done successfully, I faced some little challenges which hindered the smooth running of the activities making me recommend addition of technical personnel's in the final chapter of the report.

CHAPTER ONE

1.0 INTRODUCTION

1.1 HISTORICAL BACKGROUND OF NaCRRI

National Crops Resources Research Institute (NaCRRI) formerly Namulonge Agricultural and animal Production research institute, is one of the research institutes under the policy guidance of the National agricultural research organization (NARO) located in Namulonge village, Namulonge sub county, Wakiso district in the central region of Uganda 27km along Gayaza-Zirobwe road, P.O.BOX 7084 Kampala, www.nacrrri.go.ug, tel. +256 414573016.

It was established in 1949 by the empire cotton growing cooperation of Britain solely to investigate ~~problems related to cotton production within the countries of British empire the cotton research~~ cooperation handed over Namulonge to the Uganda government in 1972, the institute continued to operate as cotton research station until 1980's when research on other commodity crops and animal production was introduced the crops introduced included maize, cassava, sweet potatoes, rice, soya bean, sunflower, groundnuts, simsim and wheat in addition to cotton. Agroforestry research was also introduced to the institute at this time in addition, Namulonge supervised the collection of weather data, processing and transmission of the information to the department of meteorology and agriculture this information was processed into advisories on weather to farmers by both the department of meteorology and agriculture.

PRESENT MANDATE OF NaCRRI

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 programs;

Legumes

Root crops (cassava and sweet potatoes)

Cereals (maize and rice)

Horticulture and oil palm

NaCRRI is one of the six public Agricultural research institutions under the coordination of NARO whose mandate is to conduct research and knowledge generation on crops of strategic national importance.

SERVICES AND PRODUCTS OF NaCRRI

- Foundation seed
- Expert consultancy services
- Hi-tech laboratory services