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BUSITEMA UNIVERSITY, ARAPAI CAMPUS

**AN INDUSTRIAL TRAINING REPORT FOR ACTIVITIES CARRIED OUT AT THE
NATIONAL SEMI- ARID RESOURCES RESEARCH INSTITUTE (NaSARRI) IN
SERERE DISTRICT FROM 28th FEB 2022 TO 6th MAY 2022**

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**TO BE SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION
OF BUSITEMA UNIVERSITY ARAPAI CAMPUS FACULTY OF AGRICULTURE
AND ANIMAL SCIENCES IN PARTIAL FULFILMENT OF THE AWARD OF A
DIPLOMA IN CROP PRODUCTION AND MANAGEMENT.**

DATE OF SUBMISSION:

DECLARATION

I **KUTOSI BESWELI** do declare that this report is entirely an original documentation of my industrial training experience at NaSARRI, SERERE district and it has never been submitted to any institution of higher learning for the award of Diploma in crop production and management.

STUDENT'S NAME: *KUTOSI BESWELI*

SIGNATURE: *Kutosi Besweli*



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for **NAME: DR UGEN MICHEAL**

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DATE:.....
8/5/2022

ACEDMIC SUPERVISOR.

NAME: Mr. MAYANJA IBRAHIM

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DATE:.....

INTERNSHIP CO-ORDINATOR

NAME: MR. OKWANG DODAH

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DATE:.....
05/05/2022

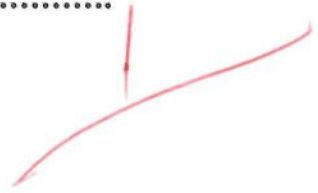


FIELD SUPERVISOR.

for **NAME: MR. OCAN JAMES ROLAND.**

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DATE:.....
5TH - MAY, 2022.



DEDICATION

I dedicate this report to my family members most especially my father KUTOSI GEORGE for the support that labored for me during hard times in raising my tuition, also to the working staff of NaSARRI and my fellow friends that I did my internship with that hello to all brothers and sisters for supporting me with all your graceful hearts not forgetting the working staff of Busitema University Arapai Campus in there different levels.



ACKNOWLEDGEMENT.

Thanks to the administration of BUAC for the training, advice and guidance during the course of study. Most gratitude goes to the leaders of Busitema university Arapai campus for the guidance that they levied to me.

My sincere thanks also goes to the staff and the management of NaSARRI especially to the director for having allowed me to conduct my internship in NaSARRI and my supervisor ALEPO HARRIET BETTY and OKWANG DODAH a dry land legume expert at NaSARRI for their exhausting support during my internship and all those who are not mentioned that may the Almighty God bless you abundantly.

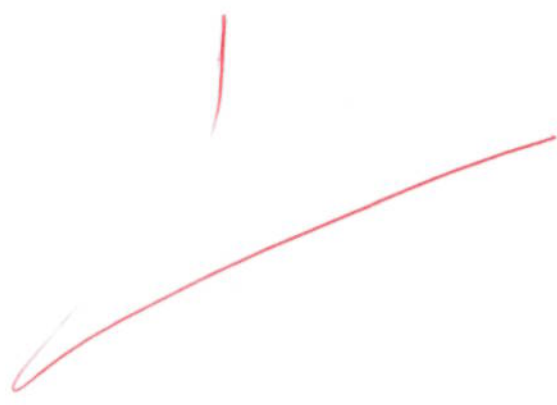


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LIST OF ABBREVIATIONS.

NaSARRI – National Agricultural Resources Research Institute

NARO – National Agricultural Research Organization

BUAC – Busitema University Arapai Campus

DAP – Diploma in Animal Production and Management

ECF – East Coast Fever

SC – Subcutaneous injection

MW – Male weaner

MA – Male adult

OTC – Ox tetracycline

GIT – Gastro-intestinal tract

FA – Female adult

FW – Female weaner

IV – Intravenous injection

IM – Intramuscular injection

BBBRH – Back Belly Brisket Rare body and Head

IT – Internship training

I.e. - That is *to say*

Eg – For example

ETC – And many others

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ABSTRACT

The industrial training was carried out at National Semi-arid resource research institute (NaSARRI) from 28th/2/2022 to 6th/5/2022. During this training I was attached to five departments (programs) which include cotton program, oil crops program, farm management, dry land cereal program, and dry land legume program.

The main objective of the training was to equip students with basic practical skills in relation to the theoretical knowledge learnt in class. This report comprises of four chapters which include chapter one containing background location, mission, vision, mandate, objectives and organisation structure.

Chapter two contains activities that were performed and they include agronomic practices of cotton, identification of cotton varieties emasculation, selfing and crossing of cotton varieties, pest and disease identification, postharvest handling, packing, counting of seeds, emasculation of flowers, weighing of 100 seeds of groundnut, farm management e.g. metrology, horticulture, pasture management, animal traction, mushroom production. Then other activities on dry land cereals and dry land legumes i.e. identification of varieties, field marking, pest and disease identification, sorting packing and bulking.

Chapter three contains skills and qualifications, responsibilities, challenges faced, influence of the training to my future career and correlation of the attachment with the class work knowledge

Chapter four; contains conclusion, recommendation, appendices and references.

CHAPTER ONE

1.0 Location and Description of NaSARRI:

The National Semi-Arid Research Institute is one of the 16 public Agricultural institutes (PARIs) Under the National Agricultural Research Organisation located in the Eastern Agro-ecological zone in Serere District 27km south of Soroti City.

Agricultural Research in NaSARRI started in 1920 by the colonial government. It was initially called Serere Agricultural Research and Animal Production Research Institute after which it was changed to NaSARRI. The institute has made considerable progress since its creation. A new strategy has been developed that is the Medium Term Plan (MTP) through a highly participatory country Plan for Modernisation of Agriculture (PMA)

NaSARRI is one of the Agricultural Research institutes which is publically founded to carry out demand driven research and promoting agricultural Research

1.1 INTRODUCTION TO NaSARRI

National Semi Arid Resources Research Institute (NaSARRI) formally called SAARI is one of the 17 public Agricultural Research Institutes under NARO. NARO is responsible for conducting and coordinating agricultural research in Uganda. NaSARRI is located in the Eastern agro-ecological zone in Serere district, Olio sub- county, Igola parish, 21 km south of Soroti City Agricultural research in NaSARRI was started in 1920 by the colonial government and it was initially called Serere Agricultural and Animal Research Institute after which it was changed to NaSARRI. The institute has made considerable progress since its creation anew strategy has been developed that is the medium Term plan (MPT) through a highly participatory country plan for Modernization of agriculture (PMA). NaSARRI is one of the agricultural Institutes which is publically founded to carry out demand driven research and promoting agricultural research.

1.2. Objectives of NaSARRI:

To generate, package and disseminate appropriate agricultural production technologies to improve sustainable development

NaSARRI conducts research on mandated crops like cereals i.e. finger millet, pearl millet, sorghum, rice etc., oil crops e.g. groundnuts, sun flower, simsim and legumes like green gram, pigeon peas and cow peas