

**A REPORT OF INDUSTRIAL TRAINING CARRIED OUT AT NATIONAL SEMI-ARID
RESOURCES RESEARCH INSTITUTE (NaSARRI) - SERERE**

FROM 28TH FEBRUARY, 2022 TO 6TH MAY 2022

COMPILED BY

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**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 DIPLOMA IN CROP PRODUCTION AND
MANAGEMENT OF BUSITEMA UNIVERSITY**

MAY, 2022



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DECLARATION

I ONGODIA MARION do declare that the information contained in this report is entirely an original document of my industrial training experience at NaSARRI, and it has never been submitted to any institution of higher learning for the award of a Diploma in Crop Production and Management.

.....*Marion*.....

ONGODIA MARION



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APPROVAL

This report has been submitted for examination with the approval of the following supervisors;

1. Field supervisor, NaSARRI

Name... Okiring Joseph

Sign... [Signature]

Date... 5/5/2022

2. Intern coordinator, NaSARRI

Name... Charles Nankunda

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Date... 09 MAY 2022



3. Director of Research, NaSARRI

Name... Obuo John Kambiti

Sign... [Signature]

Date... 9/5/2022

4. Academic supervisor, BUAC

Name.....

Sign.....

Date.....

DEDICATION

I dedicate this work to my dear mother, Madam Jane Ikomera, for the love, care and support that she provided to me during the training as well as my brothers Okiring Isaac, and Akol Albert, that may God reward your works abundantly.

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ACKNOWLEDGEMENT

First and foremost, I thank the Almighty God for giving me the knowledge, strength, wisdom, encouragement and above all the life he has given unto me

I would like to appreciate the staff of Busitema University Arapai campus for implementing the industrial training as one of the core modules which help students learn hands-on skills in correlation to the class theory, enabling their agricultural experience hence preparing them for a wide range for the job market.

Sincere appreciation goes to the staff of NaSARRI for their hospitality, guidance and co-operation especially the Director Dr. Ugen Michael for giving me a go ahead permission to carry out my industrial training at the institute.

Above all ma regards go to my supervisor Mr. Okiring Joseph for the support during my training and my friends who have been with me from then till date that may the almighty God reward you abundantly.

Lastly I would like to appreciate my field technicians that helped me at the field, my friends and everyone that supported me academically, for their great efforts during my industrial training at NaSARRI, may the Almighty God reward them abundantly.

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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
NAROSORG	:	Nano sorghum
SESO	:	Serere sorghum
NAROMIL	:	Naro millet
SEREMI	:	Serere millet
NAROGRAM	:	NARO green gram
SERENUT	:	Serere groundnut

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ABSTRACT

This internship was conducted at NaSARRI for a period of 10 weeks from 28th February 2022 to 6th May 2022. NaSARRI is located in the Eastern Agro Ecological Zone in Serere district which is about 27km south of Soroti town. The main objective of the internship was to enable students get practical knowledge, skills and monitoring and evaluation in agricultural research and other related activities. It was conducted in different sections in a rotational form. The major programs include farm management, dry land cereals, dry land legumes, fiber crops and oil crops. Various activities were carried out during the training at NaSARRI which included pest and disease identification in sorghum, grafting and budding of oranges and mangoes, nursery bed establishment, post-harvest data collection, selfing and crossing in cotton etc. While in the field, I gained skills in planting at a recommended spacing of each crop, post-harvest data collection, 100 seed counting using electronic machine, agronomic practices in various crops and pest and disease identification etc. However few challenges were faced like inadequate tools and equipment's to be used in the nursery bed sites, poor allocation of students to different sections, lack of sick bays for treatment in case of any emergencies etc. In conclusion, I gained a wealth of experience with regards to work and am very optimistic that this industrial training will contribute significantly to my career development as an agricultural professional.

However from the few challenges listed above, I would recommend that the institute should provide adequate tools and equipments to be used at the farm, avail a healthy facility for first aid to both students and staff and also draw clear training program and allocate students to specific supervisors to avoid confusion in the institute.



CHAPTER ONE

INTRODUCTION AND BACK GROUND

1.1 Introduction

Internship training is generally a pre-requisite for students in certain programs at all levels of higher education to increase the level of work of the graduates and under graduates. The program was introduced to empower the training competence and provide 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. This internship was conducted at National Semi - Arid Resources Research Institute (NaSARRI) in Serere district.

1.2 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.ug/index.php>). NaSARRI was started in 1922 by the colonial government. It was by then called Serere Agricultural and Animal Research Institute (SAARI) after which it was to carry out Research for Semi-Arid Regions in Uganda.

1.3 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 at a longitude of 139 degrees north latitude 33 degrees and 27 degrees east, 27 kilometers south west of Soroti City. 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.

1.4. Vision of NaSARRI

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

1.5. NaSARRI Mission

To generate, package and disseminate appropriate agricultural production technologies and information for improved and sustained integrated crop and natural resource management in the semi-arid areas in partnership with other stake holders.