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FACULTY OF AGRICULTURE AND ANIMAL SCIENCES.

**A COMPREHENSIVE REPORT FOR THE INDUSTRIAL TRAINING ON BOTH CROP
AND ANIMAL PRODUCTION AND MANAGEMENT CARRIED OUT AT NGETTA
ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE.**

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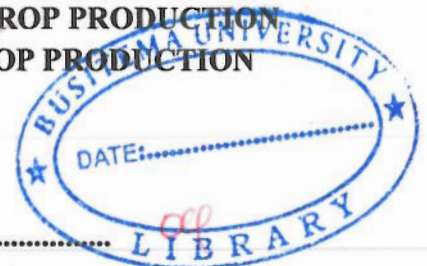
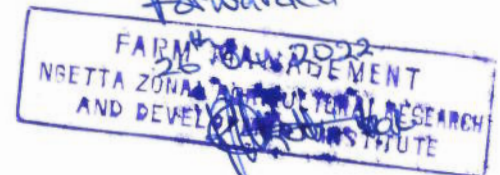
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**A REPORT TO BE SUBMITTED TO THE DEPARTMENT OF CROP PRODUCTION
AND MANAGEMENT FOR THE AWARD OF DIPLOMA IN CROP PRODUCTION
AND MANAGEMENT.**

DATE OF SUBMISSION.....29/04/2022



DECLARATION

I Acen paska peace do declares that every information contained in this report is collected, analysed , interpreted and compiled by me and has never been submitted to any institution or University for the award of any diploma in Crop Production and Management.

Name: Acen paska peace

Sign..... *Acen paska peace*

Date..... *26th 04/2022*

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Field supervisor

Name: Mr.Okello Horace

Sign..... *Mr. Okello Horace*

Date..... *26th 04/2022*

University Supervisor

Name: Mr.Musoba Andrew

Sign..... *Mr. Musoba Andrew*

Date..... *26/04/2022*



DEDICATION

I would like to dedicate this report to our staff of BUAC and Ngetta ZARDI and the field supervisor Mr.Okello Horace and the University supervisor Mr. Musoba Andrew for their wonderful work done to me during field assessment, my brother oen Patrick who provided me with financial support during the field, my mother Aceng Jibinna who made me show the world.

A handwritten mark consisting of a long diagonal stroke followed by a small, stylized symbol that resembles the number '01'.

ACKNOWLEDGMENT

The Industrial training activity has been successful, enjoyable. It was an opportunity for me to apply the knowledge got from class to the field, sincere gratitude goes to the staff of BUAC and Ngetta ZARDI, my financial supporters Filder Odong colleague Apio Nancy, Ojok Joel Okongo who offered me support during the industrial training activity

A handwritten mark consisting of a checkmark-like shape followed by the number '07'.

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LIST OF ABBREVIATIONS

NGO	Non Governmental organizations
CBO.	Community Based Organization
ZARDI	Zonal Agricultural Research and Development institute
NAADS	National Agricultural Advisory Development Services
ARDC	Agricultural Research and Development Center
NARO.	National Agricultural Research Organization
DFI.	District Farm Institute
NARS	National Agricultural Research Stations
Eg	Example
CM.	Centimeters
M	Meter
DCP.	Diploma in Crop Production and Management
Mr	Mister
Ms	Miss
KM	Kilometers

LIST OF TABLES AND FIGURES

Table 1 showing the spacing of different crops

Fig 1 Showing seed extraction and budding citrus

Fig 2 Showing pests identification and making trenches in citrus

Fig 3 Showing organization structure of Ngetta ZARDI



ABSTRACT

Industrial training is one of the module that introduce the students to the field in order to gain confidence, knowledge and skills. In this training a student goes out to various agricultural research and training institute, farms of their choice. Ngetta ZARDI consist of both crop and animal Production covering eight units of studies for example aquaculture, mother garden, agro forestry, goats unit, dairy unit, Horticulture and adaptive research.

This report consists of four chapters, chapter one indicate the introduction of Ngetta ZARDI, location, climate, historical background, sector and product, beneficiary of the organization

Chapter two describe the various sections and activities carried out during the industrial training at each sections like budding citrus and grafting mango, cloning eucalyptus, making trenches.

Chapter three consists of skills and qualifications gained, responsibilities undertaken during the training, influence of the training to my future career, challenges faced during the training and solutions to the challenges faced and lastly chapter four contained of conclusion and recommendations

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CHAPTER ONE: INTRODUCTION

Ngetta Zonal Agricultural Research and Development institute which is serving the entire northern region in Uganda. It is comprises of qualified staffs which are under the organization of NARO and NAADS. In this institute there are four categories that is to say applied and adaptive research both on the station and on the farm, seeds multiplication and foundation seed our research program technology transfer and determination.

1.2 LOCATION OF NGETTA ZARDI

Ngetta ZARDI consists of two stations; the main one is located 5km (3miles) on Lira-Kitgum road and satellite station located on the outskirts of Kitgum Town. The main station has a land area of about 221hectares (550 acres) while the satellite station has a land area of 70.8 hectares (175 acres). The main campus is 1.17N of the equator and 32.56E. The elevation is 1180 meters above the sea level.

1.3 CLIMATE

The climate of the institute is tropical with mean annual temperature of 30.4⁰ C. The lowest temperature is 28.14⁰ C which is usually from March- June and the highest is 33.39⁰ C which is in February. The rainfall at Ngetta ZARDI is bi-modal with the first rain falling in March- June and second rain falling in August- November. Mean annual rainfall is 1305.3mm. The vegetation there is Savannah grassland with scattered trees and shrubs. The soil at Ngetta ZARDI are Sandy loam and the topography is gentle slope, the soil of the institute with its characteristics makes it suitable for mechanisation or mechanised cultivation.

1.4 HISTORICAL BACKGROUND

The historical information about Ngetta ZARDI is scanty, however inscription on some buildings suggest that the construction at Ngetta ZARDI formerly District farm institute (1964-1998) and Agricultural Resource and Development Center (1999-2006) started in 1930s. It was research center for cotton under Serere research station. During the post world war ii period the center was used for settlement and re-orientation site for war veterans. In the 50s the colonial government gave to the department of agriculture for the purpose of teaching farmers around the center for better farming practices. After independence, the governed regarded it to District farm institute (DFI) under the Ministry of Agriculture and it served the larger area.

1.5 OWNERSHIP OF THE ORGANIZATION

In 1999 its Agriculture and it served the large region, ownership and Management was transferred to National Agricultural Research Organization (NARO) they later changed it from Ngetta DFI to Ngetta Agricultural Research and Development Center (ARDC) with the NARO act 2005 Ngetta ARDC became Ngetta Zonal Agricultural Research and Development institute with the main campus at Ngetta in Lira city west and satellite located at the former public Agricultural Research institute under the supervision and guidance of a management committee.