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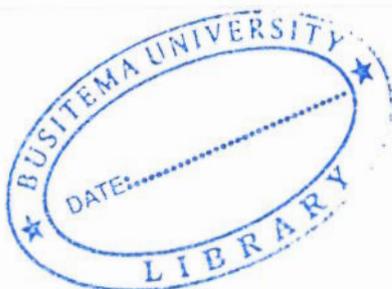
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**A REPORT TO BE SUBMITTED TO THE DEPARTMENT OF CROP PRODUCTION
AND MANAGEMENT FOR THE AWARD OF DIPLOMA IN CROP PRODUCTION
AND MANAGEMENT.**

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



DECLARATION

I Onekalit Samuel 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. 07

Name: Onekalit Samuel

Sign.....

Date..... 28/04/2022

Field supervisor

Name: Mr.Okello Horace

Sign.....

Date..... 28th 04, 2022

University Supervisor

Name: Mr. Musoba Andrew

Sign.....

Date..... 26/04/2022



DEDICATION

I kindly dedicate this report to my beloved parents Mr. Olwa Jackson and Ms. Abullu Grace, Sisters Teddy Acio, Akello Scovia, Aduku Nighty and my brothers Agang Daniel and Otel Gerald and then to all my friends for their effort towards my success in my future. May the almighty God bless you all. Amen



ACKNOWLEDGMENT

I would like to thank the almighty Father for the gift of life He granted to me, more so I want to appreciate my field supervisor Mr. Okello Horace and all the staff of Ngetta ZARDI especially the manager and to all the staff of Busitema University Arapai Campus for the great work they have done for me in terms of academic and our supervisor Mr. Musoba Andrew who endeavored to come for us all the way from Soroti and all my friends and well-wishers for their great support and encouragement given to me in all ways. May the almighty God bless you all.

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Fig 2. Showing watering seedlings and seed extraction

Fig 3 Showing Organizational structure of Ngetta ZARDI



ABSTRACT

Industrial training is one of the course 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 of their choice. Ngetta Zonal Agricultural Research and Development institute 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 finally chapter four consist 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 comprised 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 30.4⁰C. 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.