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A COMPREHENSIVE INDUSTRIAL REPORT CONDUCTED AT NGETTA ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTION (NGETTA ZARDI).

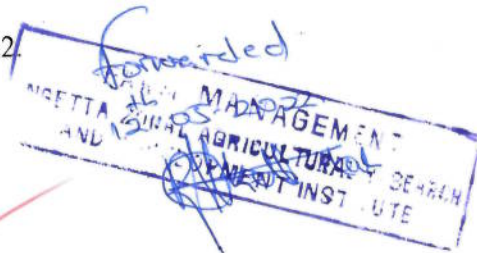
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A REPORT TO BE SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION

BUSITEMA UNIVERSITY FACULTY OF AGRICULTURE AND ANIMAL SCIENCES

IN THE FULFILMENT FOR THE AWARD OF DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

SUBMISSION DATE: 18/05/2022

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DEDCLARATION

I OPIO HALLAN declare that this is my true original copy of work done during industrial training and it has never be submitted to any university, institution, college of learning for any award of academic qualification.

Signature:

[Handwritten Signature]

Date:

12th May 2022

APPROVAL;

This report is submitted due to the approval of supervisors.

FIELD SUPERVISOR

NAME

HORACE OKELLO

DATE

12th May 2022

SIGNATURE

[Handwritten Signature]

UNIVERSITY SUPERVISOR

NAME

DATE

SIGNATURE



DEDICATION

This internship report is dedicated in a special way to my beloved Daddy Mr. Odur Julius peter and my beloved mom Miss Grace Odur and all my family members for both their financial and spiritual support to me during my industrial training course.

And in special way I would also like to take this opportunity to thank all my friends.

May the almighty God have mercy upon them and bless them abundantly

Much love to you all.

A handwritten signature in black ink, consisting of a long, sweeping horizontal stroke followed by a small, stylized mark that resembles the letter 'S'.

ACKNOWLEDGEMENT

I thank the almighty God for the wisdom, knowledge and protection rendered to me to finish this industrial training. Am highly indebted to several individuals and offices that made my internship successfully.

First and foremost my gratitude goes to my Guidance for his kind heart and financial support offered for me to meet the university tuition and requirements, secondly my sincere gratitude goes to the administration of Ngetta ZARDI for admitting me and their consideration in which they Offered to me to undertake my training at the institute. my thanks also goes to the my field supervisor Mr.Okello Horace and the rest of staff for their guidance and encouragement during the training.

I thank all people who contributed towards the successful finishing of my industrial training both directly and indirectly. This goes to the entire community of Busitema University Arapai Campus and in particular to all my lecturers for the knowledge and directives they gave me.

May Almighty God bless you all.

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LIST OF ABBREVIATION

ZARDI.....Zonal Agricultural Research and Development
Institute

REG NO.....Registration Number

NAADS.....National Agricultural Advisory Services

NARO.....National Agricultural Research Organization

DFI.....District Farm Institute

ARDC.....Agricultural Research and Development Centre

NGO.....Non-Governmental Organization

m.....meter

cm.....centimeter

BUAC.....Busitema University Arapai Campus

KM..... kilometer

Ha.....hectare

MR..... Mister

Am..... afternoon

Pm.....before noon

i.e.....that is to say

LIST OF TABLE AND FIGURE

Table 1: showing varieties of some fruits trees at Ngetta ZARDI and their common pest and diseases.

Table 2: showing cause of sudden death in livestock

Table 3: showing feed resource

Table 4: showing the internship work plan

Table 5: showing the organization structure of Ngetta ZARDI

List of figures

Figure 1: shows my participation in weeding nursery

Figure 2: shows my participation in soil mixing for potting soil for raising clonal eucalyptus

Figure 3: shows my participation in grafting of mango

Figure 4: shows my participation in field marking

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ABSTRACT

The following are the units found at Ngetta ZARDI and I managed to visit different farm units with their respective production as listed below.

Goat unit /small ruminant; the most common breed of goat reared at Ngetta ZARDI are local breeds and some exotic breed on the enterprise. Goats are also looked at and reared largely for production milk and meat. The number of goats would have been large but the kids and the adults are largely attack by parasites and also poor management attained to them.

Dairy unit; under this enterprise at the farm, animals are kept at different categories in different sizes as many are milked every morning and evening respectively. The units are less productive due to poor management of the unit leaders and not forgetting climatic and environmental factors.

Adaptive research; under this this unit, different crops are conducted like data collection on beans, fertilizer application on specific soil, climate and phscio-economic environmental characteristics of a given are and the crop were maize , rice, beans and many others. The reason to carry out adaptive research includes:

- To determine resistance of crop against pest and diseases
- To get crops those are tolerant to harsh climatic conditions.

Aquaculture. In this section, fish are reared in ponds. There are two species at fish reared in the institute and they include cat fish and tilapia. These are the objectives of the aquaculture at Ngetta ZARDI.

- Income earning for the institute
- Learning purpose for the researchers
- Livestock feeds

Some of the challenges at the institute include poor management by the technician, poor means of communication from both the students and the staff at the institute.

These are some of the units that are not found at Ngetta ZARDI; poultry, piggery and mushroom section

CHAPTER ONE

1.0 INTRODUCTION TO NGETTE ZARDI

Ngetta ZARDI is one of the PARI institutions serving both mid north and northern zone of Uganda i.e. Lango and Acholi sub region respectively

1.1 LOCATION

Ngetta ZARDI is located at the main campus of 1°-17° N of Equator and 32° -56° E, 5 KM (3Miles)on Lira Kitgum road that is the main station meanwhile the satellite is located on the skirts of Kitgum town. The main station has about 70.8 hectares.

The climate of the institute is tropical with mean annual temperature ranging from 30° -39° c in February.

1.2 HISTORICAL BACKGROUND

The historical background of Ngetta ZARDI is not clear but what is believe is that it started around 1930s and this was obtained on some of the buildings.it was used as the cotton research center under Serere. Again in 1950s. the center was used as the orientation for the war veterans for the World War 2.

At around 1956.the center was given to the ministry of Agriculture and forestry for training farmers for better farming practices and the name was given(LDSI). Lango district social institute. After independence the government upgraded it to district farm institute (DFI) under the ministry of agriculture i.e. Lira and Apac.

In 1999 the ownership and management were given to NARO i.e. National Agriculture research organization and the name was changed from DFI to Ngetta Zonal Agricultural Research and Development Centre. With the decentralization i.e. bringing services nearer to research in 2007 September the name was change from agricultural research and development center to agricultural Research and Development Institute (ZARDI) serving g15 districts in both Lango and Acholi sub region .as a public ARDI .Ngetta ZARDI is a semi-autonomous institute under the supervision and guidance of manage committee