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**FACULTY OF AGRICULTURE AND ANIMAL SCIENCE
ARAPAI CAMPUS**

**AN INDUSTRIAL TRAINING REPORT CARRIED OUT
AT NGETTA ZONAL AGRICULTURAL RESEARCH
AND DEVELOPMENT INSTITUTE (NGETTA ZARDI)**

IN LIRA CITY

FROM 28TH, FEB, 2022 TO 22ND APRIL 2022.

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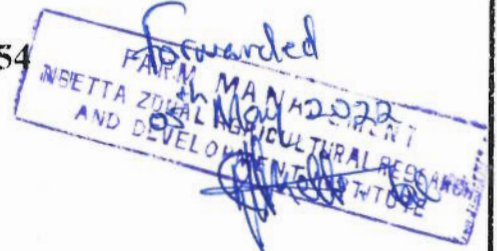
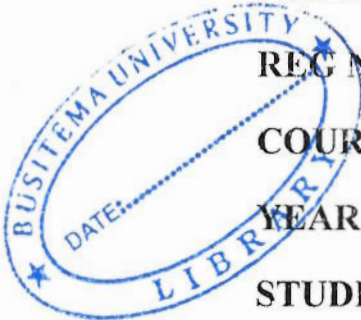
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**A REPORT SUBMITTED TO THE FACULTY OF AGRICULTURE AND
ANIMAL SCIENCE IN PARTIAL FULFILMENT OF REQUIREMENT
FOR THE AWARD OF DIPLOMA IN CROP PRODUCTION AND
MANAGEMENT IN BUSITEMA UNIVERSITY ARAPAI CAMPUS.**


DATE OF SUBMISSION 6/5/2022

DECLARATION

I **PIRWOTH JOSEPH** do declare that this report is original and was compiled after industrial report carried out at Ngetta zonal Agricultural Research and Development Institute (ZARDI) and has never been presented to any student and institute or university for the award of Diploma in Crop Production and Management.

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APPROVAL

This industrial training report has been submitted with approval from the university supervisor undersigned below;

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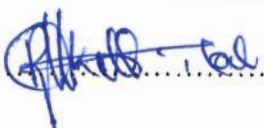
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Date: 05th 05 2022

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ACADEMIC SUPERVISOR

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Date: 05/05/22

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DEDICATION

In a special way I would like to reach out this dedication to my **parents, brothers and sisters** and not for getting my **friends** for their effort rendered to me towards my industrial training both financially and spiritually.

I would like to dedicate this to **Mr. Okello Horace** for his guidance and counseling during the industrial training at **NGETTA ZARDI**.

ACKNOWLEDGEMENT

This report would have not become reality without the help of my people. I wish to express my sincere gratitude to my supervisor **Mr. Musoba Andrew**, **Busitema university Arapai campus** administration and its staffs and I would like to thank them for bringing the best in me.

I thank my best friend **Onencan Junior** and other students from Arapai with whom I studied with during my industrial training right from the beginning to the end of the training

I am grateful to the management of the **Ngetta ZARDI**, students of **Bukalasa** for allowing me to use their facilities for carrying out my training successfully. I am also very grateful to all the staffs of **Ngetta ZARDI** especially **Mr. Okello Horace** for his ample time he gave us throughout the entire training for the wellbeing of our report.

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LIST OF ABBREVIATIONS

Ngetta ZARDI	: Ngetta Zonal Agricultural Research and Development Institute.
NAADS	: National Agricultural Advisory Service
BUAC	: Busitema University Arapai Campus
REG NO.	: Registration Number
DCP	: Diploma in Crop Production and Management
DAP	: Diploma in Animal Production and Management
CGA	: Certification in General Agriculture
CBO's	: Cotton Based Organization
IT	: Industrial Training
DFI	: District Farm Institute
M	: Meter
CM	: Centimeter
MGT	: Management
MAR	: March
JUN	: June
AUG	: August
NOV	: November
ETC	: Exceptra

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ABSTRACT

This report contains summarized industrial training report which was commenced on the 28th February, 2022 to 22nd April, 2022 and it was carried out at **Ngetta Zonal Agricultural Research and Development Institute** for a period of eight weeks. This report has four chapters as well as some sub-topic bellow them.

The report contain details about introduction, historical background, location and present mandates as well as the objective of above training at Ngetta ZARDI.

This explained the description of attachment of the report such as Agro forestry, germplasm (mother garden of citrus, and mangoes), Animal sections, horticulture, Adaptive research and Aquaculture which contributed to a lot of skills and knowledge for the betterment of my future building capacity.

This chapter explains the impacts of the attachment like application of both skills and knowledge to the trainee through participation in different practical aspects in the field of agriculture, skills gained like grafting, budding, spraying, management of nursery bed both in Agro forestry and horticultural crops, Animal management like treatment etc. Responsibility under taken like participation in various activities, influence of the attachment on my future career like capacity building on practical field work, and also correlation of classroom knowledge into practical aspect and challenge encountered like accommodation, financial problem, shortage of tools and others

This chapter best explain some of the conclusion, recommendations of the above report. Therefore, I conclude by saying that, though some challenges were encountered, the training went on well with a lot of application of practical skills and knowledge gained

Finally, I recommend that the institution should renovate old structure like cattle dip, provide accommodation, add missing section like piggery unit and so on.

CHAPTER ONE

1.0 Introduction

Ngetta ZARDI is serving the entire Northern region of Uganda comprises of qualified staffs which is under the organization of NARO and NAADs. In this institute, there are various enterprises such as applied and adaptive research both on station and on the farm, seed multiplication and research program technology are all being carried out.

1.1 Location of the institute.

Ngetta ZARDI is located. $1^{\circ}17^{\circ}\text{N}$ of the Equator and 32.5°E of Greenwich meridian, in Northern Uganda, Lira City, Lira City East Division, Anyomorem Ward, Okii Oyere Cell along lira-Kitgum high way about 5 kilometers from lira town.

Figure 1 Showing vegetation, rainfall, temperature, altitude, topography and soil where the institute is located.

Vegetation	✓ I has savanna grassland with scattered tree shrubs
Rainfall	It has bimodal rainfall pattern having two seasons i.e. ✓ 1 st rain falling between Mar and Jun. ✓ 2 nd rain falling between Aug and Nov.
Temperature	✓ The temperature is highest between January and February and lowest between August and September.
Altitude	✓ The altitude range between 1000-180m above sea level.
Topography	✓ It has gentle slope appearance.

1.2 Historical background

The historical background about Ngetta ZARDI is not clear (very scanty). But inscription (writing on certain building states that the construction of Ngetta ZARDI 2005 up to date, Ngetta ARDC (Agricultural Development Centre) (1999-2005) and Ngetta DFI (1965-1999). The construction of Ngetta ZARDI started in 1930s. It was used as cotton varietal trail center under Serere research institute. After the post-World War II; the Centre was used as reorientation of