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BUSITEMA UNIVERSITY ARAPAI CAMPUS
FACULTY OF AGRICULTURE AND ANIMAL SCIENCE
INDUSTRIAL TRAINING REPORT CARRIED OUT AT
NGETTA ZONAL AGRICULTURAL RESEARCH AND
DEVELOPMENT INSTITUTE IN THE ACADEMIC
YEAR 2019/2021

FROM 28TH FEB TO 22ND APRIL 2022

COMPILED BY

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Forwarded
FARM MANAGEMENT
NGETTA ZONAL AGRICULTURAL RESEARCH
AND DEVELOPMENT INSTITUTE

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Date of submission ... 03. MAY. 2022

Sign..... *[Signature]*

THIS IS AN INDUSTRIAL TRAINING REPORT TO BE SUBMITTED TO THE
DEPARTMENT OF AGRI-BUSINESS AND EXTENSION AT BUSITEMA UNIVERSITY
ARAPAI CAMPUS

DECLARATION

I OYON SOLOMON JUK declare that all the relevant information found in this report is the first hand original report and has never been submitted to any Agricultural institution, colleges and universities around the country for award of Certificate in General Agriculture.

Name: OYON SOLOMON JUK

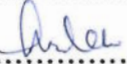
Sign.....

Date..03/MAY/2022.....

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This report has been submitted under the supervision of my University supervisor undersigned below

Name: Musoke Andrew

Sign.....

Date..03/05/2022.....



APPROVAL

This is to certify that OYON SOLOMON JUK has carried out industrial training at NGETTA ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE, under my supervision. This work is now ready for submission to certificate in General Agriculture with due approval.

Field Supervisor. OKELLO HORACE

Date..... 02nd 05 2022.....

Sign:..... .....



ACKNOWLEDGEMENT

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I would like to thank highly the administrators of **NGETTA ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE** for granting me opportunity on this training.

My wonderful appreciation goes to the instructors of the university and pleasant moment goes to field supervisor Mr. Okello Horace for being cooperative during training.

I am very grateful to send my infinite appreciation and affectionate to my Friends, like Agola Shadrach and my sister Adur Daphine and not forgetting my father Mr. Juk Lakana and, my brother Meri maxwel, and my lecturers who are working tirelessly for my education and training irrespective of the capacity

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ABSTRACT

The purpose of this industrial training is to attain the practical skills both in crops and animal husbandry by using the theoretical knowledge acquired by the students for various institutions, college and university

Several activities were carried out in different fields as students were allocated in different sections from the farm

In the first week, I was basically utilized for orientation to make me know the farm policies, premises and staff to deal with morals to have when in the community

The activities carried out was under the section of Agro forestry, there was seedling raising e.g. citrus, mangoes, how to carryout grafting and budding, importance of grafting and budding

Under the section of Aquaculture, there was importance of growing fish in water, pond construction and managing the pond, fish harvesting and fish hygiene

Under the section of adaptive research there was harvesting of maize, soya beans and how to manage them, cassava management

Under the section of dairy production and management, there was advantages of dairy production, management requirement and methods of milking. And under the section of goat production, there was facilities needed for goat production, system of rearing goats, management system.

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ABBREVIATIONS

NARO:	National Agricultural Research Organization
NCAP:	National Certificate in Agricultural Production
DFI:	District Farm Institute
IT:	Industrial Training
UBTEB:	Uganda Business and Technical Examination Board
NGEZARDI:	Ngetta Zonal Agricultural Research and Development Institute
MM	Millimeter
ARDC	Agricultural Research and Development Center
NARS	National Agricultural Research Station
NGOs	Non-Governmental Organizations
AEZS	Agro-Ecological Zones
CDOs	Community Development Organizations
NaSARRI	National Semi-Arid Resource Research Institute
NaFIRRI	National Forestry Resource Research Institute
Tz	Tetrazolium
CGA	Certificate In General Agriculture
SQCU	Seed Control Quality Unit
NUV	Near Ultra Violent Weight
FAW	Fall Army Worm
SOP	Seed Operation Procedures
BUAC	busitema University Arapai Campus
Cm	centimeter

CHAPTER ONE

1:1 INTRODUCTION

The training began on the 28th February 2022 with a brief introduction among staffs. On that day we were briefed about the location, historical background and farm tour includes:

- ❖ Aquaculture
- ❖ Livestock Production
- ❖ Crop production
- ❖ Adaptive Research
- ❖ Mother Garden
- ❖ Agro forestry

1:2 HISTORICAL BACKGROUNDS ABOUT NGETTA ZARDI

Historical background about Neeta, however, inscription on some buildings suggest that construction at Ngetta ZARDI formally the district farm institute (1964-1999) and Agricultural Research and Development center (1999-2006)

It started in 1930s. It was a research station for cotton under the serve Serere research institute

During the post-World War II periods, the center was used as the settlement area and re-orientation site for war veterans

In 50s colonial government gave it under the department of agriculture for the purpose of teaching farmers around better training practices after independence the government upgraded it to district farm institute (FDI) under the ministry of agriculture and it served Lango district in 1999, its ownership and management was transferred to National Agricultural Research organization (NARO) the name then changed from Ngetta FDI to Ngetta Zonal Agricultural research and development centre (ARDC) with the coming in to force of NARS act in 2005. Ngetta ARDC become a zonal Agricultural Research and Development Institute with the main campus at Ngetta in Lira, and a satellite station located at former Kitgum ARDC on the out skirt of kitgum town. As public Agricultural institute under the supervision and guidance of management committee.

1:3 LOCATIONS

Ngetta ZARDI consist of two stations, the main one is located 5kms on Lira kitgum highway road and satellite station located on the outskirts of kitgum town

The station has land area of about 221hectares (550acres), while the satellite has land acres of 70.8 hectares (175acres) the main campus 1^o17N of the equator and 32^o5E.the elevation is 180 meters above sea level. The climate of the institute is tropical and the mean annual temperature 30.43c and the lowest temperature (28.14^oC) are usually in July and the highest 33.39^oC is in February. The