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P.O. Box 236, Tororo, Uganda
Tel: +256 45 444 8838
Fax: +256 45 4438517
Email: info@busitema.ac.ug
www.busitema.ac.ug



**INDUSTRIAL TRAINING REPORT CARRIED OUT ON BOTH ANIMAL AND
CROP PRODUCTION AND MANAGEMENT WITH ABI-ZARDI IN ARUA CITY**

COMPILED BY

STUDENTS' NAME: CHANDIGA ADINAN

REGISTRATION NUMBER: BU/UG/2019/3506

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EMAIL ADDRESS: chandigaadinan507@gmail.com

TELEPHONE: 0773869191/0704667591

SIGN.....*Chandiga*.....



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

DATE OF SUBMISSION.....?

Dedication

With much love, I would like to dedicate this internship report to Almighty Allah, sponsorer (Ugandan Government), Mr.Buruga Habib, Madam Carolyn, Mr.Ajobe Brahan and my mother for their tireless care, protection, moral advice and financial support offered.

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Declaration

I, Mr, **Chandiga Adinan** sincerely and honestly declare that this report has been due to my own effort, ability and therefore, there is no guarantee that it has been produced by any other author and presented to the award of academic qualification like Diploma in animal production and management or high learning institution.

Signature.....*Chandiga*.....Date *10/05/2022*.....

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Name - - - - ?

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Acknowledgement

I am much glad towards the successful finishing of the industrial training and therefore the following deserve acknowledgement for the tireless efforts made;

First and foremost,I would like to express my honest gratitude and appreciation to my academic supervisor **Dr Charles Andiku** supervisor **Mr Iwe Gerald Degu** and other field supervisors in the various sections for their tireless guidance and supervision during the industrial training.

Secondly,I would also like to congratulate the farm manager and the entire Abi-ZARDI management not forgetting my fellow interns for their efforts in special, professional guidance, time and patience in due course of the industrial training.

Thirdly, I would like to thank and congratulate the administration of Busitema University and the entire staff members of Arapai Campus for the professional knowledge offered that has enabled me to carry out the training.

My sincere heart felt gratitude also goes to my sponsors Ugandan government,Mr. Buruga Habibu, Madam Carolyn, Mr. Ajobe Brahan, Abdul-Hamid Amin, lady Chandiru Fatima and Sister Angaika Zabibu for the wonderful guidance, courage and financial support as per my Education is concerned.


May Almighty Allah bless them abundantly?

Approval

This report has been submitted for examination under the supervision of;


Chandiga Adinan

Student- Busitema University, Arapai Campus

Date... 09/05/2022 Sign..... 


Mr Iwe Gerald Degu

Field Supervisor (Senior Research Technician)

Date ... 10/05/2022 Sign..... 

Dr John Walakira K

Director Of Research Abi ZARDI

Date... 10/05/2022 Sign..... 



Dr Charles Andiku

University Academic Supervisor.....

Date..... Sign.....

List of Abbreviations

ARRP	Animal Resource Research Programm
BUAC	Busitema University Arapai Campus
CS	Crop Science
FM	Farm Manager
IDM	Integrated Disease Management
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IPM	Integrated Pest Management
NARIs	National Agricultural Research Institutes
NARO	National Agricultural Research Organization
NRMP	Natural Resoruce Management Program
PHH	Post Harvest Handling
SFM	Soil Fertility Management
TPO	Technology program Officer
UNBS	Uganda National Bureau Of Standards
ZARDI	Zonal Agricultural Research And Development Institute

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Abstract

The faculty of agriculture and animal sciences Busitema University Arapai campus had a field attachment in the curriculum for her year two students of CGA,DCP,DAP and degree programs.

The objectives of the training were to fulfill the academic requirements for the award of DAP, acquire hands-on ,opportunistic skills, add core values and experiences in my profession through real working life schedules in the field of agriculture,guide BUAC and Abi-ZARDI on the gaps that could have existed hence improving on future developments, creating employment opportunity in my future carrier.

The training was therefore carried out with Abi-ZARDI in Arua City,West Nile sub-region (UG) from 28th.February.2022 to 6th,May.2022 that had well organized programs of ARR, CS,NRMP and TPO.The ARR involved enterprises like cattle, goats, poultry, aqua-culture and api-culture on which various practices were done as described in chapter two while in CS/NRMP department, agro-forestry seedlings production, agronomy of maize,ground nut,soya beans,potatoes, soil management through conservation using various methods and other correlating activities within,TPO and good administration that enabled me accomplish the training within the stipulated time frame.

The information was collected through discussions, observations, recorded literatures, questioning and practical demonstration and presented in tabular and content form.

The areas of concern were lack of some specimens,lack of ICT services ,harsh weather conditions,un timely industrial training program due to COVID-19 that affected crop field practicals while lack of fish seed facilities to breed fish.

However,the recomodations were,students' timely reporting, early work plan drafting , self motivation,engaging in research programs,student -supervisor relations to help market themselves out there while Abi-ZARDI should employ technical staff for mechanisation,stock both library and laboratory to do experiments,have ability to collaborate with City veterinary department to enhance practicals and the University ought to provide guidelines/report format for students before getting to their stations as well for better planing.

Chapter One

1.0 Introduction

The faculty of agriculture and animal sciences Busitema University Arapai campus has field attachment for her year two students of CGA, DCP, DAP and degree programs that helped students to acquire hands-on skills and experiences in their professional studies through the internship. It was a measure of improving the practical skills of the graduates from the faculty of agriculture in the aspects of real working life schedules through field practices/ visits, experiments and community outreach as well. This report was therefore on industrial training carried out with Abi-ZARDI in Arua City, West Nile sub-region (UG) from 28th February, 2022 to 6th May, 2022. The organization based on ARRP with enterprises like cattle, goats, poultry, aqua-culture and apiculture while CS/NRMP on crop production such as agro-forestry seedlings production, horticultural crops, botanical garden, cereals, legumes, fruits including various approaches, equipments/implements and research services with well-organized departments, farm structures, TPO and administration that enabled me accomplish the training within the stipulated time frame.

The Specific Objectives of the Field Attachment are to: -

- a) Enable students get hands-on/real-life experience they are expected to work in when they graduate
- b) Provide an opportunity for students to apply the principles and techniques theoretically learnt into real-life problem solving situations
- c) Provide an opportunity for students and academic staff to interact with key stakeholders and potential employers and thus appreciate the field situations that will also generate information for curricula review and improvement
- d) Develop students' understanding of work ethics, employment demands, responsibilities and opportunities
- e) Enhance and strengthen linkages between Busitema University and various stakeholders

Historical Background of Abi ZARDI

Abi Zonal Agricultural Research and Development Institute (Abi ZARDI) is a semi autonomous Public Agricultural Research Institute (PARI) in Uganda established by national agricultural

research act of 2005 headed by a director of research operating under national agricultural research system(NARS) a component of NARO.

Location

The institute is located in west Nile region of Uganda in Arua City ,Ayivu East Division ,8km away from Arua town along Rhino Camp Road in Manibe and in the junction of 3 Wards of Ewadri, Ombokoro and Odravu while in terms of Cell, in the south East is Adroyi, Obopi West in the North West ,Yabiavoko in West, and Oluodri trading centre in the South.

The institute occupies a total land of 208 acres (83.2 hectares) with 6 acres of wetland swamp that provide a good environment for research activities. It is located about 530km to the north of west of Kampala on an altitude of 1100m above sea level and geographically it lies north east of Arua City Centre on grid reference of 30N-31E.

The institute started as district farm institute (DFI) in 1962 ,later up graded to an agricultural research and development centre (ARDC) in 2002 /2001 as an outreach station of improved technologies for West Nile Agro - ecological zone(WNAEZ). It acquired a zonal agricultural research institute (ZARDI) status in 2005 and is now one of the 9 ZARDI's in Uganda.

The institute is mandated to conduct adaptive research in all the 13 districts of West Nile Agro ecological Zone i.e. Arua city, Maracha, Koboko, Nebbi, Zombo, Yumbe, Moyo, and Adjumani Madi Okollo, Pakwach, Obongi, Arua and Terego Respectively

Mandate; Conduct Applied and Adaptive Agricultural Research relevant to West Nile Agro-Ecological Zone

Vision; Climate Resilient, Food-secure and Poverty-free farming communities of West Nile Region

Mission; To promote innovations for sustainable Agricultural Transformation