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**A REPORT ON INDUSTRIAL TRAINING CARRIED OUT AT NGETTA ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE-NgeZARDI-LIRA.**

**FROM; 18<sup>TH</sup> MAY; 24<sup>TH</sup> JULY, 2015**

**COMPILED BY;**

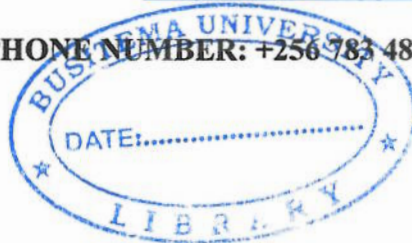
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**FARM MANAGEMENT**  
**NGETTA ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE**



**AREPORT SUBMITTED TO THE FACULTY OF AGRICULTURE AND ANIMAL SCIENCES, BUSITEMA UNIVERSITY –ARAPAI CAMPUS PARTIAL FULFILLMENT FOR AWARD OF NATIONAL DIPLOMA IN ANIMAL PRODUCTION AND MANAGEMENT.**

**YEAR OF SUBMISSION**

**AUGUST, 2015**

*6*

## DECLARATION

I **Okot Justine Mike** registration number **Bu/Ug /2014/1596**, hereby solemnly declare that ,this report entitled field attachment report; Adaptive Research And Experiment, Goat Improvement Unit, Horticulture Unit (Fruit Trees Nurseries),Aquaculture Sections, Crop Production Section And Agro forestry was made out of my own efforts with consultations from my filed supervisor and facilitators and therefore it presents this original work which I undertook from 18<sup>th</sup> may, to 24<sup>th</sup> July 2015 at Ngetta Zonal Agricultural Research And Development Institute Lira.

In conclusion to the above, I declare that, this report has never been submitted by any student to any institution of learning for any academic award.



**APPROVAL**

I hereby confirm that, the work submitted in this report is true and has been done under my supervision and commitments and it has never been submitted for any academic award.

Field Supervisors' Signature;..... 

Field Supervisors Name;..... OKELO HORACE

Title;..... Co-ordinator Training



## DEDICATION

I **Okot Justine Mike**, wish to dedicate this comprehensive report to my beloved parents miss rose obuga ,my brothers Deacon John Bosco Odongo ,Deacon Douglas Owera;Mr Ocaya Geoffrey; and to all my sisters miss abok jusphine,miss nyana Christine, miss Milly odai whose tireless effort enabled me to successfully accomplished this noble training.

I extend my dedication to my fellow students of busitema university arapai campus;Mr Opio Michael,Mr Ogal Benjamin,Dougulus Odongokara, Denis Odongtoo,Mandu Eliphazi,Natiko Simon ,Ssekabira Gerald And Many Others

Lastly to my dear lecturers' of Busitema University more especially Arapai Campus and fur most to the department of Agri- Business and Extension for their magnificent support rendered to me when at the campus





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## **ABSTRACT**

This report aims at giving a critical descriptions for the whole activities carried out at Ngetta Zonal Agricultural Research And Development Institute-lira, during my industrial training carried out from 18<sup>th</sup> may,24<sup>th</sup> july,2015;

The above named institution aims at undertaking, promoting and coordinating research in all aspects of fisheries, crop production, agro-forestry and livestock improvement, therefore, below holds activities, that I physically participated and actively in, that is to say;-

Field making of various demonstration plots, preparation of nursery seed bed and it's general management practices , Testing of seed germinability and viability percentage,weeding,gap filling ,stacking, detrashing, Denavelling of coffee and banana plants or gardens ,detarsselling of maize and collection of data on WEMA maize varieties ,grafting, budding, potting, watering ,transplanting, applying fertilizers, identifying of weevil pest invasion banana plant and applying of furudan fungicides, raising of eucalyptus by means of vegetative propagation and applying of deldrin and aldrin to control eucalyptus termites from the eucalyptus mother garden.

In addition to the above, site selection, digging of the pond and its dykes, weighing, formulating feed and feeding of fish, liming , manuring and fertilizing of the pond were also done.

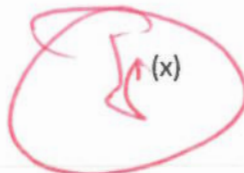
Moreover, bailing of hay, feeding, watering, cleaning of the pen, Deworming, dehorning, castrating, giving of treatment, spraying animals to control external parasites, weighing, record keeping and establishing of the various pasture and multipurpose fodder trees species and lastly, identifying, diagnosing and treating of infected and diseased livestock at the institute.

### **This training helps me to:-**

Learn more of extension work through sharing ideas and interactions with farmers and amongst my fellow intern students, learn most of the appropriate ways of handling challenges, developing a smooth flow of both practical and theoretical knowledge by building confidence during extension services, and enabling me to understand work ethnics, dynamics of rural life responsibilities and challenges experiences during extension services.

### **Challenges encountered during my industrial training and its suggested solutions:-**

Few instructors and facilities to give full guidance in the field , poor time management, Long working hours which later made many student very tired, Long distances from place of residence to the institute, Language differences amongst some students and attendants in the farm and water shortage ,therefore ,more qualified skilled personnel's must be admitted, clean water points and organized time table should be provided within the different sections of the farms and moreover, institute should provide students with accommodation in order to solve challenge of long distance. Finally, the training was else beneficial as linked to my future delivery service.





## LIST OF ABBREVIATION

DFI.....	District Farm Institute
NgeZARDI.....	Ngetta Zonal Agricultural Research and Development Institute
Demo.....	Demonstration
ZARDI.....	Zonal Agricultural Research and Development Institute
NARO.....	National Agricultural Research Organization
EAAPP.....	East Africa Agricultural Productivity Project.
ARDC .....	Agricultural Research and Development Centre
CBO <sup>s</sup> .....	Community Based Organizations
NAAD <sup>s</sup> .....	National Agricultural Advisory Services.
SSP.....	Single Super Phosphate
NGOS.....	Non Governmental Organization
DAP.....	Dimonium Phosphate
NPK.....	Nitrogen Potassium Phosphorous
PMA .....	Plan For Modernization Of Agriculture
WEMA.....	Water Efficiency Maize
O.T.C.....	Oxy-Tetracycline

## **CHAPTER ONE**

### **1:0. INTRODUCTION:**

I hereby, submit in my industrial training report for consideration to your office carried out at Ngetta zonal agricultural research and development institute to the above, the followings were then sections from which activities were carried out on; aqua-culture, goat improvement, dairy production and management, adaptive research and experiment, agro-forestry, fruit trees and nurseries, demonstration plots and seed multiplication and mother garden [main farm], furthermore the training was practical and educative on the above sections;

### **1:2. ORIENTATION**

**Orientation** became the first activity to be conducted during our training course, from we walked together under the full guidance and supervision of the field for the organization has he introduced to various farm sections/units like demonstrations plots, goats improvement unit, dairy production and management, adaptive research and experiment, aquaculture and many others.

### **1:3. LOCATION AND HISTORICAL BACKGROUND**

**1:3:1. Location**; Ngetta ZARDI located 5 kms [3miles] Lira Kitgum road, as a land area of about 221 hectare [550 acres], elevation of 1180 meters above sea level with tropical climate and bimodal rainfall.

**1:3:2. Historical Background**; historical information about NgeZARDI is scanty however inscription in some buildings suggest that construction at ZARDI formally District Farm institute [1964 -1998] and agricultural research and development institute later [1999-2006] started in 1930s. it was a research centers for cotton under serere research station. During the post world war ii period, the centre was used as a settlement and orientation sites for war veterans. After independence, the government upgraded it to a District Farm Institute [DFI] under the ministry of agriculture and it served the Lango districts. In 1999 its ownership and management was transferred to national agricultural research organization [NARO]. NAR Act 2005 forced the change of name DFI to Ngetta ARDC therefore in 2007, NgetteARDC became a zonal Agricultural research and development institute.

### **1:4. PRESENT MANDATE**

NARO's strategy for 2010 -2020 places the great emphasis on developing and disseminating improved Agricultural technologies relevant to different Agro-Ecological Zones (AECS).

Accordingly, various ZARDI were established in different agro-ecological zones to specifically manage and carryout applied and adaptive research relevant to each agro-ecological zone.