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**DEPARTMENT OF AGRICULTURAL MECHANISATION AND IRRIGATION
ENGINEERING**

**INDUSTRIAL TRAINING REPORT CARRIED OUT AT NATIONAL SEMI ARID
RESOURCE RESEACH INSTITUTE(NaSARRI)-SERERE**

From 19th June to 11th august

BY

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BU/UP/2021/0861

A report submitted in partial fulfilment of the requirements for the award of

Diploma in Agricultural mechanization and Irrigation Engineering.

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ABSTRACT

- This industrial training report explains the development of the practical and professional skills in the field of crop agronomy and agricultural engineering carried out at National Semi Arid resources research institute Serere

Chapter 1

Consist of introduction, background, administration structure of NaSARRI and objectives of industrial training for engineering students.

Chapter 2

Explicates the practical work done during the training in which I participated fully and it was a success.

Chapter 3

Contains the experiences and lessons learnt from the training

Chapter 4

Encompasses of the conclusion, recommendation and appendices

DECLARATION

I, AUJO EVERLYN declare that this work has been compiled under my own efforts and has not been submitted to any university or any other academic institution for any academic award.

Signature.

.....

Date.

.....

DEDICATION.

I dedicate this report to my father Mr. Aogon Steven, my mother Mrs Asekenye margaret and siblings who tirelessly stood by my side leading me all this way with a successful struggle through and until the end of my industrial training.

ACKNOWLEDGEMENT

I thank the almighty God who gave me courage and life in collecting the information used in the compilation of an industrial training report.

Special thanks to the administration of Busitema University for having organized this internship period.

I would like to convey my sincere appreciation to the management and staff of NaSARRI for the training opportunity granted to me and for the guidance throughout the training period. Special thanks to Mr. OKIRING JOSEPH, Mrs INEBU IRENE and Mr EBAMU ALEX.

APPROVAL.

This is to certify that Miss AUJO EVERLYN carried out industrial training at National Semi Arid Resources Research Institute (NaSARRI) from 19th June 2023 to 11th august 2023 and what is reported is true and ready for submission to the department of Agricultural Mechanization and Irrigation Engineering, Busitema University Faculty of Engineering

Training manager(officer)

Name.

Signature.

Date.

Official

Seal/stamp

Busitema University Supervisor

Name.

Signature.

Date.

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CHAPTER ONE

1.0 Introduction

The National semi-Arid Resources Research Institute NaSARRI formally called SAARI is one of the 17th public agricultural research institutes under NARO and it's responsible for conducting and coordinating agricultural research of crops, livestock, fisheries, forestry and national resources and also to ensure dissemination of results .it falls under the category of National semi-Arid Resources Research Institute NaSARRI which carry and manage the agricultural research of strategic nature and National importance. NaSARRI conducts applied and adaptive research in agriculture in the experimental station for ox-cultivation that was designed to support and uplift cotton production in teso and for training the staff from the department of agriculture by then NASARRI has made fundamental and considerable

progress since its creation but all these progresses would not have happened if it was not because of the support from the government of Uganda and several donors.

1.1 Background of industrial training program

To understand, undertake research in crop production for semi-Arid system. NaSARRI conducts research on finger milled, pearl millet, sorghum, sunflower, groundnuts, cotton, cowpeas, pigeon peas, animal traction, social economics and marketing.

The mandated areas cover five Agro-ecological zones comprising of eastern savannah, karamoja, dry lands, mid to northern and west Nile farming system.

1.2 Objectives of industrial training

- To develop improved crop varieties which are high yielding, early maturing, tolerant to draught, pests and diseases and have high market demand.
- To generate appropriate crop, soil fertility, disease and pest management options that increase crop yields.
- To disseminate appropriate technologies and information to uptake pathways and limited number of farmer groups.

1.3. Company organization profile

VISION.

To be a market leader in generation and dissemination of appropriate crop technologies for sustainable development in semi-arid regions of uganda

MISSION.

To generate and disseminate agricultural production technologies and information for improved management and sustained integrated crop and natural resource management in the semi-Arid areas in partnership with other stake holders.