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**A REPORT ON INDUSTRIAL TRAINING CARRIED OUT IN NATIONAL SEMI-
ARID RESOURCES RESEARCH INSTITUTE (NaSARRI) - SERERE**

FROM 21ST MAY TO 27TH JULY, 2018

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COMPILED BY

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**TO BE SUBMITTED TO THE DEPARTMENT OF AGRI-BUSINESS AND RURAL
EXTENSION, FACULTY OF AGRICULTURE AND ANIMAL SCIENCES BUSITEMA
UNIVERSITY-ARAPAI CAMPUS AS A REQUIREMENT FOR PARTIAL
FULFILLMENT OF AN AWARD OF DIPLOMA IN CROP PRODUCTION AND
MANAGEMENT.**

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DECLARATION

I Opedun John Michael declare that this report is entirely of my own work and has never been submitted to any Institution/ University for any academic award .

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DEDICATION

I dedicate this report to my beloved parents Mr Otai Mark Anthony and my mother Arionget Mary Goretty and to all my relatives who have worked hard upon my education both materially and finacially, and also wish to congratulate my lecturers and my supervisors who helped me this training

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Above all thanks to my almighty GOD for His help for granting me the grace to carry this industrial training successfully.

Special thanks also goes to the farm manager NaSARRI and the entire administration of NaSARRI for accepting and allowing me to conduct my industrial training at the institute.

I also wish to extend my gratitude to all my supervisors Mr Ogabe Paul and University Academic supervisor: Dr Lubadde Godfrey for your positive response, guidance and encouragement throughout my industrial training are greatly appreciated.

I also extend my thanks to all the authors whose books and journals I used as guidance during my training

Finally my appreciation goes to all my lecturers in their respective capacities for guiding me on report writing skills, and also every body whom I have not mentioned here but contributed to the success of my training you all deserve my appreciation and may the almighty God bless you in all your endeavours.

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Mr.:	Mister
Mrs.:	Mistress
NARO.	National Agricultural Research Organization
NaSARRI:	National Semi Arid Resource Research Institute
I.e:	That is to say.
E.g:	For example
OPVS:	Open pollinated varieties
PARI:	Public Agricultural Research Institute
SAARI:	Serere Agricultural Animal Research Institute
DCP:	Diploma in crop Production and management.

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ABSTRACT

This IT was conducted for 10 weeks at National Semi-Arid Resources Research Institute (NaSARRI) located in the Eastern Agro-ecological zone in Serere District 27 km South of Soroti town from 21st may to 27th July 2018 with the objective of relating class room knowledge with the field knowledge. It was carried in different programs in a rotation i.e. Cotton, dry land Legumes, Oil crops program and lastly in dry land cereals program.

Activities conducted during the internship placement included; disease identification ,thinning cotton, stand count in finger millet ,field marking in cotton to set up an experimental trial, seed sorting in cotton, data collection the 10 boll samples 1A, 1B and 2A in cotton, pest scouting in cotton and cowpea, disease scoring, emasculation in all crops, sorting and weighing green gram seeds, data collection on flowering date and 50% flowering in sun flower, punching sun flower leaves, and Rouging finger millet off types etc. The majors skills attained during the placement were: Crossing of various breeders' lines, field marking, data collection, emasculation and selfing. The main challenge during the placement was inadequate tools at the research station to be used by students to demonstrate research activities and long distance since the institution had only the accommodation for staff members. Despite of overwhelming challenges, my industrial training enabled me to gain demonstrable practical and technical skills and knowledge in various activities carried out.

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CHAPTER ONE

1.1 General introduction:

School field placement is generally a pre-requisite for all students. It is intended to equip students with practical skills and knowledge. Consequently internship program prepares students with competence, practical experience in terms of field activities, effective communication, team work and professional perspective and reporting.

1.2 Introduction:

The National Semi Arid Resources Research Institute (NaSARRI) is one of the sixteen (16) Public Agricultural Research Institute (PARI) under National Agricultural Research Organization (NARO) mandated to generate agriculture technologies and knowledge and to disseminate to farming communities in the semi- arid regions of Uganda .

1.3 Background of NaSARRI:

The national semi-arid resources research institute (NaSARRI), was started in 1920 by the British colonial government as an experimental station. In 1992, it evolved to an institute and was called Serere agricultural and animal production research institute (SARRI). In 2005 during the restructuring of NARO its name changed to national semi-arid resources research institute (NaSARRI) whose mandate is to generate and disseminate agricultural technologies in semi-arid regions of Uganda. It carries research on crops which include cotton, sorghum, finger millet, pearl millet, groundnuts, sim- sim, sunflower, cowpea, green gram and pigeon pea.

1.4 location of NaSARRI:

The National Semi-Arid Resources Research Institute (NaSARRI) is located 27km southwest of Soroti Town in Serere District, Serere Town Council, Igola Village.