

**Commercial Standardisation of Instrument Testing of Cotton with
particular consideration of Africa
CFC/ICAC/ 33 Cotton Project**



**Report on the inauguration of the Regional Cotton Testing for the Regional
Technical Centre (RTC) for East/Southern Africa done on 08 April, 2010**

Prepared by:

**Mr. Dominic Haynes Mwakangale
RTC East/Southern Africa-Expert**

BRIEF REPORT ON THE INAUGURATION OF THE REGIONAL COTTON TESTING LABORATORY FOR REGIONAL TECHNICAL CENTRE FOR EAST AND SOUTHERN AFRICA HELD BETWEEN 08 AND 09 APRIL, 2010 AT TANZANIA BUREAU OF STANDARDS.

1.0 OPENING OF THE SEMINAR

1.1 Introduction

The inauguration of the Regional Cotton Testing Laboratory for the Regional Technical Centre for East and Southern Africa started with the awareness Seminar on the Commercial Standardization of Instrument Testing of Cotton (CSITC) which was held on the 08 April, 2010 at the Blue Pearl Hotel.



1.2 Opening statement by the Permanent Secretary, Ministry of Industry, Trade and Marketing

The seminar was officially opened by the Permanent Secretary Ministry of Industry, Trade and Marketing Mrs. Joyce Mapunjo. In her opening remarks she emphasized the importance of the project as having an overall objective to assist the cotton producing countries, especially the developing countries and the Least Developed Countries (LDCs) to meet the emerging quality assessment demands of the global cotton market so as to strengthen or at least maintain their competitive position in the world market. She urged all the cotton stakeholders to collaborate with the RTC for East/Southern Africa for a successful implementation of this project.

1.3 List of Participants

The seminar was attended by delegates from Uganda, Zambia, Malawi, Mozambique, Kenya, Ethiopia, South Africa and Tanzania. The inauguration ceremony was also attended by the dignitaries from the following International organizations; Common Fund for Commodities(CFC),European Union(EU),International Cotton Advisory Committee(ICAC) and Fibre Institute of Bremen

The list of the delegates present is here to attached in **Annex I**

1.4 Inauguration of the Regional Cotton laboratory

The Regional Cotton Laboratory under the CSITC project was inaugurated on the 08 April, 2010 by Hon. Dr. Mary Nagu (MP) Minister for Industry, Trade and Marketing.

The program for the inauguration is hereto attached in **Annex II**



2.0 PAPER PRESENTATIONS BY THE RESOURCE PERSONNEL

2.1 About CSITC Project and CSITC Task Force

The overview of the CSITC Project was presented by Mr. Axel Drieling from the Fibre Institute Bremen in Germany. The contents from his presentation highlighted on;

- i. The importance of obtaining reliable information about the actual quality of cotton

- ii. Manual and Visual classing on cotton
- iii. Instrument Testing Principles
- iv. Perspective in the evaluation of cotton
- v. ICAC CSITC Task Force
- vi. CFC/EU – ICAC project
- vii. Benefits for cotton producing developing countries.
- viii. Harmonization of High Volume Testing
- ix. Africa – specific objective and project activities
- x. CSITC Project choice of Regions in Africa
- xi. Schedule of the Project Activities
- xii. Trainings for the RTC Experts
- xiii. Installation of the RTC



2.2 The roles of RTC East and Southern Africa

The roles of RTC East and southern Africa were clearly presented by the Director of the Tanzania Bureau of Standards Mr. Charles M. Ekelege that the RTC East and Southern Africa will be entrusted with the following tasks;

- i. Exemplary Laboratory for training expertise and dissemination of information to the regional laboratories
- ii. Reference laboratory for re – tests and round trials.
- iii. Possibly instrumental testing of cotton from the region before it is exported to the international markets.



The RTC East/Southern Africa located at TBS will be performing its task covering
Mainly on the following countries:

1. Tanzania
2. Uganda
3. Zambia
4. Zimbabwe and
5. Mozambique

TBS will collaborate with TCB to ensure a successful implementation of the project taking into cognizance of TCB's wide experience in cotton classing and marketing to the International markets.

2.3 Cotton Industry in Tanzania progress and prospects

The progress and prospects of the cotton Industry in Tanzania was highlighted by Dr. Joe T.C.B. Kabissa the Director General, Tanzania Cotton Board and contained the following aspects;

- i. The volume of cotton production in Tanzania
- ii. Major market trends for cotton
- iii. An overview of cotton in Africa
- iv. Policy reforms in Tanzania
- v. A Note on the Textile Industry
- vi. Coping strategies after reforms
- vii. Future prospects.
- viii. Some recent developments on the commodity market.
- ix. A word of caution



2.4 Factors contributing to the cotton quality

A paper on factors contributing to the cotton quality was presented by Mr. Dominic H. Mwakangale the RTC Expert of the CSITC Project for East/Southern Africa.

From his presentation, he focused on the following topics;

- i. The Cotton Fibre
- ii. Fibre Development
- iii. Soil Conservation
- iv. Sources of Variability
- v. Plant Diseases
- vi. Insect Management
- vii. Harvesting
- viii. Ginning Process
- ix. The benefits of the CSITC Project.



2.5 Manual Classing Vs Instrumental Classing of Cotton

This paper was presented by the RTC East/Southern Africa Expert Mr. Humphrey M. Shango and focused on the following concepts;

- i. Manual classing
- ii. Types of Standardization Systems
- iii. Instrument Testing
- iv. Properties of manual Classing
- v. In accuracies in stapling cotton
- vi. Pricing
- vii. Reasons for Cotton testing
- viii. Fibre Quality Measurements
- ix. Testing reliability.



2.6 Meeting of the Chief Executives of the Cotton Institutions served under the Regional Technical Centre for East/Southern Africa.

The first meeting of the Chief Executives of the cotton institutions that are served under the Regional Technical Centre (RTC) for East/Southern Africa was held on 09 April, 2010 at Blue Pearl Hotel, Dar es Salaam Tanzania.

The meeting was held to discuss among other issues:

- 1) Memorandum of understanding between the Regional Laboratories to participate to the Regional Technical Centre (RTC) activities.
- 2) Modalities on the transportation of the re-test samples.
- 3) Importance of International and Regional Round Trials and the evaluations of the Round Trials results.
- 4) Panel discussion on the legal organization of the Regional Technical Centre once the project funding comes to the end of November, 2010.

The list of delegates who attended the meeting is hereto attached as **Annex III**

3.0 Training of Stakeholders

Training of the Stakeholders was held on 09 April, 2010 at Blue Pearl Hotel and the following papers were presented:

3.1 Cotton production and harvesting

This paper was presented by the Cotton South Africa representative Mr. Gert Klindt and focused on the following concepts;

- i. Introduction to Cotton S. Africa
- ii. The main functions of Cotton S.Africa
- iii. Functions of the Quality Control Division

- iv. Outlook On Local Cotton Situation
- v. The Decrease In Cotton Production
- vi. The Decrease In Cotton Consumption
- vii. Biotech Cotton: Sa
- viii. Yields: Sa Vs World
- ix. S.Africa Cotton Gins
- x. Expected changes in cotton production in South Africa
- xi. Introduction to HVI testing
- xii. Consequent impact on the spinning industry:
- xiii. Introduction to the S. Africa Cotton Crop Performance

3.2 Bale sampling procedure and variability

This paper was presented by the RTC East/Southern Africa cotton researcher Dr. E. Lukonge and focused on the following concepts;

- i. The Cotton genetic species
- ii. Cotton Production in Africa
- iii. Within Bale Variability Study
- iv. Factors influencing variability
- v. Sources of variability
- vi. How to make the study
- vii. Factors crossed together to built the status
- viii. Experiment to be made and hypothesis
- ix. Hypothesis (H1, H2, H3 and H4)
- x. Work Done And Countries Visited So Far

3.3 HVI test results interpretation and factors influencing test results

This paper was presented by the RTC East/Southern Africa Expert Mr. Humphrey M. Shango and focused on the following concepts;

- i. HVI Test Results Interpretation

- ii. Importance of Fibre Properties
- iii. Cotton Colour Grade Chart
- iv. HVI Colour grades
- v. Spinning Consistency Index
- vi. Trash Measurement
- vii. Standard Deviation
- viii. Co-Efficient of Variation
- ix. Test results influencing factors
- x. Why cotton conditioning is necessary
- xi. Laboratory Conditions
- xii. HVI Calibration cotton
- xiii. Calibration frequency
- xiv. HVI Calibration Cotton Storage
- xv. HVI Calibration Cotton replacement
- xvi. Variation in test results
- xvii. In-house check
- xviii. Instrument maintenance

3.4 Cotton Ginning

This paper was presented by the RTC East/Southern Africa Expert Mr. Humphrey M. Shango and focused on the following concepts;

- i. Quality of Cotton Fiber
- ii. About Ginning Process
- iii. Stages of Cotton ginning
- iv. Fiber Improvement by Process Control
- v. Best ginning practices
- vi. Quality changes during storage

3.5 Description of the cotton quality assessment on the world cotton market-current situation

This paper was presented by the International Cotton Advisory Committee (ICAC) representative Mr. Andrei Guichounts from United States of America and focused on the following concepts;

1) A Bright Short-Term Outlook

- a) Cotton Consumption
- b) Share of Asia in the World Total
- c) World Cotton Production and Mill Use
- d) Price Ratios at Planting Time
- e) World Cotton Area and Yield
- f) Cotton Production
- g) World Cotton Imports
- h) Cotton Exports
- i) Global Cotton Ending Stocks
- j) Cotlook A Index

2) A More Nuanced Long-term Outlook

- a) World Cotton Production and Consumption
- b) Cotton/Grain Price Ratios
- c) World Cotton Area
- d) World Cotton Yields
- e) World End-Use Textile Fiber Consumption by Fibers
- f) Cotton's Share of World End-Use Textile Fiber Consumption
- g) Relative Cotton Prices

4.0 COUNTRY STATEMENTS

All the participants present expressed their appreciation to the CFC and EU for their positive consideration on the cotton business from the Developing Countries and these statements came from various stakeholders as follows;

- ❑ Farmers consider this project as a tool towards improving their quality cotton yields and will rely very much from the RTC instructions.
- ❑ The ginners welcomed this project as an impetus towards improving the Ginning processes and tasked the RTC to keep on up-dating them on the contemporary trends on cotton ginning process.
- ❑ The merchants felt overwhelmed from this project as this will reduce claims and will create fair trade both domestically and at International markets.
- ❑ Textile Industries believe that this project will to some extent revive the Dwindling Textile Industries in the developing countries due to the stiff prevailing competition from imports.
- ❑ Regional laboratories indicated a sign of being relieved with the outcome of this project as they anticipate will help improve their laboratories and create Competences in their daily operations with envisage of assisting the cotton business in Africa.

**LIST OF PARTICIPANTS DURING THE INAUGURATION OF THE FOR THE RTC
COTTON LABORATORY**

A) COMMON FUND FOR COMMODITIES

COUNTRY	NAME	ORGANIZATION	POSITION
THE NETHERLANDS	Amb. ALLY MCHUMO	CFC	Managing Director
	Sieste V.D Werff	CFC	Senior Project Manager

B) EUROPEAN UNION

COUNTRY	NAME	ORGANIZATION	POSITION
TANZANIA	Anne- Claire LEON	EU/EC Rep. in Tanzania	

C) INTERNATIONAL COTTON ADVISORY COMMITTEE (ICAC)

COUNTRY	NAME	ORGANIZATION	POSITION
USA	Andrei Guitchounts	ICAC	

D) FASER INSTITUT-BREMEN (FIBRE)

COUNTRY	NAME	ORGANIZATION	POSITION
GERMANY	Axel Drieling	FIBRE	Project Director

E) TANZANIA

COUNTRY	NAME	ORGANIZATION	POSITION
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TANZANIA	Mr. Moses Bujaga	WAKEFIELD INSP. SERVICES	Lab Manager
TANZANIA	Mr. Lazaro Ndutta	COTTON GROWER	Chairperson
TANZANIA	Mr. Mohamed Sharrif	COTTON GINNER	Representative
TANZANIA	Mr. C. Munisi	SPINNER	Representative
TANZANIA	Mr. Mahudi	Sunflag (T) Ltd	Spinner
TANZANIA	Dr. Chaboba Zaidi Mkangwa	ILONGA RESEARCH INSTITUTE	Cotton Researcher
TANZANIA	Dr. E. LUKONGE	UKIRIGURU RESEARCH INST.	Cotton Breeder

F) UGANDA

COUNTRY	NAME	ORGANIZATION	POSITION
UGANDA	Mrs. Jolly Sabune	COTTON DEV. ORGANIZATION	Chief Executive Officer
UGANDA	Mr. Patrick O. Illukat	COTTON DEV. ORGANIZATION	Lab Manager
UGANDA	Mr. Richard Parwot	COTTON GROWER	Representative
UGANDA	Mr. Amdan Khan	COTTON GINNER	Representative
UGANDA	Dr. Thomas E.E Areke	NSAARI	Cotton Researcher

G) KENYA

COUNTRY	NAME	ORGANIZATION	POSITION
KENYA	Mr. Micah Pkopus Powon	COTTON DEV. AUTHORITY	Chief Executive Officer
KENYA	Mr. Alex K. Mungai	COTTON DEV. AUTHORITY	Value Addition

			Officer
KENYA	Mr. David Wambura Masika	COTTON GINNER	Representative
KENYA	Ms Evelyn Jeruto Koskei	COTTON GROWER	Representative

H) ETHIOPIA

COUNTRY	NAME	ORGANIZATION	POSITION
ETHIOPIA	Mr. Geda Degefa Ayele	QUALITY AND STANDARDS AUTHORITY	Director of Testing Labs
ETHIOPIA	Mr. Tamrat Tsehaye	COTTON GROWER	Representative

I) ZAMBIA

COUNTRY	NAME	ORGANIZATION	POSITION
ZAMBIA	Mr. West Chitah	COTTON DEVELOPMENT TRUST	Director
ZAMBIA	Mr. Nchimunya Bbebe	COTTON DEVELOPMENT TRUST	Cotton Breeder
ZAMBIA	Mr. Mathias Michelo	COTTON ASSOCIATION	Representative
ZAMBIA	Mr. Carrivorous Simasinti	DUNAVANT-ZAMBIA	Senior Quality Controller
ZAMBIA	Mr. Stephen Phiri	CARGILL-ZAMBIA	Laboratory Manager

J) MALAWI

COUNTRY	NAME	ORGANIZATION	POSITION
MALAWI	Ms. Christine C. Mtambo	Ministry of Agriculture and Food Security	Deputy Director

K) MOZAMBIQUE

COUNTRY	NAME	ORGANIZATION	POSITION
MOZAMBIQUE	Mr. Gabriel Paposseco	MOZAMBIQUE INSTITUTE OF COTTON	Deputy Director
MOZAMBIQUE	Mr. Ascensao L. M Macumba	MOZAMBIQUE INSTITUTE OF COTTON	Cotton Classer
MOZAMBIQUE	Mr. Americo Candido	COTTON GROWER	Representative

L) SOUTH AFRICA

COUNTRY	NAME	ORGANIZATION	POSITION
S. AFRICA	Mr. Gert Klindt	COTTON SOUTH AFRICA	Senior Quality Control Officer

PROGRAM FOR THE INAUGURATION OF THE CSITC COTTON PROJECT TESTING LABORATORY 08 – 09 APRIL, 2010.

DAY 1. 08 APRIL, 2010 INAUGURATION DAY

S/N	TIME	ACTIVITY	RESPONSIBLE PERSON
1	08h00 - 09h00	Registration of Participants	All
2	09h00 - 09h15	Opening remarks	Permanent Secretary – Ministry of Industry, Trade and Marketing. Mrs Joyce Mapunjo
3	09h15 - 10h00	About CSITC Project and CSITC Task Force	Mr. Axel Drieling
4	10h00 - 10h30	Tea/Coffee Break	All
5	10h30 - 11h00	The Roles of the Regional Technical Centre (RTC) for East and Southern Africa	Mr. C M Ekelege TBS Director.
6	11h00 - 11h30	Cotton Industry in Tanzania progress and prospects	Dr. J. Kabissa TCB Director General.
7	11h30 - 12h00	Factors contributing to the cotton quality	D H Mwakangale RTC Expert.
8	12h00 - 12h30	Manual classing Vs Instrumental classing	H M Shango RTC Expert.
9	12h30 - 12h45	Closing remarks	Permanent Secretary- Ministry of Agriculture,

			Food Security and Cooperatives.
10	12h45 - 13h45	Working Lunch Break	All
11	13h45 - 14h00	Departure to TBS for the Inauguration Ceremony	All
12	14h00 - 14h45	Statements from European Union (EU), Common Fund for Commodities (CFC), International Cotton Advisory Committee (ICAC) and African Cotton Association (ACA).	Representatives
13	14h45 - 15h00	A Speech from the Guest of Honour Minister for Industry, Trade and Marketing	Hon. Dr. Mary Nagu (MP) Minister for Industry, Trade and Marketing
14	15h00 - 16h00	Inauguration of the Cotton Project Laboratory	Guest of honour and all invited participants
15	16h00 - 17h00	Refreshments	All
16	17h00	Departure of the Guest of Honour- Minister for Industry, Trade and Marketing	Hon. Dr. Mary Nagu (MP) Minister for Industry, Trade and Marketing
17	17h15	Departure of all the Participants	All

**PROGRAM FOR THE INAUGURATION OF THE CSITC COTTON PROJECT TESTING
LABORATORY 08 – 09 APRIL, 2010.**

DAY 2. 09 APRIL, 2010 TRAINING OF STAKEHOLDERS

S/N	TIME	ACTIVITY	RESPONSIBLE PERSON
1	08h00 - 09h00	Registration of participants	All
2	09h00 - 10h00	Cotton production and harvesting	Representative from Cotton S. Africa
3	10h00 - 10h30	Tea/Coffee Break	All
4	10h30 - 11h30	Ginning	D. H Mwakangale
5	11h30 - 12h30	Bale sampling procedure and variability.	Dr. E. Lukonge
6	12h30 - 13h00	Discussions	All
7	13h00 - 14h00	Lunch Break	All
8	14h00 - 15h00	HVI test results interpretation and factors influencing test results.	H. Shango
9	15h00 - 15h30	Tea/Coffee Break	All
10	15h30 - 16h30	Description of the cotton quality assessment on the world cotton market-current situation.	Mr. Terry from ICAC
11	16h30 - 17h00	Discussions	All

PROGRAM FOR THE INAUGURATION OF THE CSITC COTTON PROJECT TESTING LABORATORY 08 – 09 APRIL, 2010.

MEETING OF THE CHIEF EXECUTIVES OF THE COTTON INSTITUTIONS UNDER RTC EAST/SOUTHERN AFRICA.

DAY 2. 09 APRIL, 2010

S/N	TIME	ACTIVITY	RESPONSIBLE PERSON
1	08h00 - 09h00	Registration of participants	All
2	09h00 - 10h00	Panel discussion on legal organization of the Cotton Project.	Chief Executives of Cotton Organizations served by RTC East/Southern Africa
3	10h00 - 10h30	Tea/Coffee break	All
4	10h30 - 11h30	MoU discussions on the Regional Laboratories to participate to the RTC activities.	All Chief Executives of Cotton Organizations served by RTC East/Southern Africa.
5	11h30 - 12h30	Modalities on the transportation of re-test samples.	Chief Executives of Cotton Organizations served by RTC East/Southern Africa.
6	12h30 - 13h00	Importance of Round Trials and Evaluations of round trial results.	Chief Executives of Cotton Organizations served by RTC East/Southern Africa
7	13h00 - 14h00	Lunch break	All
8	14h00	Departure of participants	All

LIST OF THE CHIEF EXECUTIVES WHO ATTENDED THE MEETING

1. Sietse van der Werff

Senior Project Manager

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6. Dominic H Mwakangale

RTC Expert. **Secretary to the Meeting**

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7. Micah Pkopus Powon

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13. Mr. Gert Klindt,

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LIST OF PARTICIPANTS ATTENDED STAKEHOLDERS TRAINING AT BLUE PEARL ON 09 APRIL, 2010.

S/No.	NAME	ORGANIZATION
1	RICHARD PARWORT	CDO-UGANDA
2	T.E.E AREKE	NARO-UGANDA
3	AMDAN KHAN	CDO-UGANDA
4	PATRICK ILUKAT	CDO-UGANDA
5	ASCENSAO MACUMBA	IAM-MOZAMBIQUE
6	AMERICO CANDIDO	COTTON GROWER-MOZAMBIQUE
7	H.H. MAHUNDI	SUNFLAG(T)LTD-TANZANIA
8	MOHAMED SHARIF	GINNER-TANZANIA
9	LAZARO NDUTA	TACOGA-TANZANIA
10	MARYAM MBWANA	TCB-TANZANIA
11	AGATHA J. SANGA	TCB-TANZANIA
12	Dr. EVERINA LUKONGE	LZARDI-TANZANIA
13	EDWIN J. ZACHARIA	TCB-TANZANIA
14	JAMES SUNGA	TCB-TANZANIA
15	ALLAN CHIPALO	TCB-TANZANIA
16	PEARES A. SHAYO	TCB-TANZANIA
17	EMILY MBAGULE	TCB-TANZANIA
18	IRENE MUNUO	TCB-TANZANIA
19	CLEMENT S. MUNISI	21 st CENTURY-TANZANIA
20	DAVID MASIKA	GINNER-KENYA
21	M.B MICHELO	COTTON ASS. ZAMBIA
22	NCHIMUNYA BBEBE	CDT-ZAMBIA
23	CARRIVORIOUS SIMASINTI	DUNAVANT-ZAMBIA
24	HOSSEANA MWAKATUMBULA	TBS-TANZANIA
25	Dr. WAWERU GITONGA	KARI-KENYA
26	STEPHEN PHIRI	CARGILL-ZAMBIA
27	Dr. CHIBOBA Z. MKANGWA	ARI ILONGA-TANZANIA
28	HUMPHREY SHANGO	TCB-TANZANIA
29	BORNFACE MANGWENDE	WIS-TANZANIA
30	ALEX MUNGAI	CoDA-KENYA

31	ENOCK KATAM	KEBS-KENYA
32	TAMRAT TSAHAY	COTTON GROWER-ETHIOPIA
33	VIOLET SEBIGABIRO	TCB-TANZANIA
34	EVELYN KOSKEI	COTTON GROWER-KENYA
35	FULGENCE ILUNGA	TCB-TANZANIA
36	GERVAS KAISI	TBS-TANZANIA

