

EAST AFRICAN COMMUNITY - SECRETARIAT

**15TH MEETING OF THE EAST AFRICAN METROLOGY
TECHNICAL SUB-COMMITTEE**

30th MAY to 1st JUNE 2011

NAURA SPRINGS HOTEL

ARUSHA, TANZANIA

REPORT OF THE MEETING

[REF: EAC/TF /46/2011]

EAC SECRETARIAT

Arusha, Tanzania

June 2011



EAST AFRICAN COMMUNITY SECRETARIAT

15TH MEETING OF THE EAST AFRICAN METROLOGY TECHNICAL SUB-COMMITTEE (EAMET)

30th MAY to pt JUNE 2011

NAURA SPRINGS HOTEL

ARUSHA, TANZANIA

REPORT OF THE MEETING

1.0 OPENING OF THE MEETING

1.1 Introduction

The meeting was held in accordance with the calendar of EAC activities for the period May 2010 to May 2011. It was attended by delegates from four of the five partner states, namely: Burundi, Kenya, Uganda and Tanzania. The list of delegates is hereto attached as **Annex I**.

1.2 Constitution of the Bureau

The meeting was chaired by Mr. Simeon Misigaro from Burundi and the rapporteur was Mr. Dominic O. Ondoro from Kenya in accordance with EAC procedures.

1.3 Adoption of the Agenda

The agenda was adopted with modifications and is hereto attached as **Annex II**

**2.0 CONSIDERATION OF MATTERS ARISING FROM THE 14TH MEETING
EASC SUB-COMMITTEE ON METROLOGY MEETING HELD FROM 10TH-
12TH MAY 2010;**

2.1 Follow up on existing measurement capabilities

Three Partner States (Rwanda, Uganda and Tanzania) submitted their capabilities to TC1 chairperson. Other Partner states have been requested to do so by end of June 2011. This information should be available on the EAC website through contact persons in collaboration with the EAC web administrator and national content managers.

The meeting agreed on the following as the metrology data base administrators: Stephen Mboloi and John Ngugi Mwaura for Kenya; Ingram Kisamo and Alban Mark Kihula for Tanzania; Yasin Lemeriga and Kitimbo Lawrence for Uganda; Frederic Harimenshi for Burundi and Patrice Ntiyamira of Rwanda.

2.2 Consultancy regarding ISO 17025 (Accreditation of various laboratories)


- i. Tanzania Bureau of Standards reported that it is finalizing the documentation for accreditation in Electrical measurement fields; however, more capacity building is still required.
- ii. Uganda National Bureau of Standards reported that it is still awaiting the accreditation certificate from South African National Accreditation System (SANAS) for its mass laboratory.
- iii. Burundi Bureau of Standards reported that its Metrology building has been completed, however further improvements are needed to suit it for metrological use.
- iv. There was no status report from Rwanda.

2.3 EAC Web Portal.

The meeting noted that the person responsible for administration of the EAC Quality web portal is no longer available for this work.

Recommendation

The committee recommends that competent persons from the NSBs and Legal Metrology Organizations be sought to enable a person be appointed to manage this web portal and also provide for their retention to this position.



2.4 Centre of excellence for Metrology Education.

The College of Business Education (CBE) reported that it is preparing for the physical assessment based on the *EAC criteria for centres of excellence*.

2.5 Draft EAC Metrology Bill.

Following the directive from the Sectoral Council on Trade, Industry, Finance and Investment (TIFI) in its meeting of June 2010, the Secretariat organized National consultations on EAC Metrology Bill between October and December 2010. A meeting of technical experts was subsequently held in Kampala from 7th -11th February 2011 to consolidate national views of Partner States.

The reviewed Bill is now with the Secretariat for further action.

2.6 Prepackage Control Regulations

These regulations were presented and adopted in the 14th EASC meeting.

2.7 EAMET work plan 2010/2011

2.7.1 Measurement inter-comparisons

- i. The thermocouple temperature inter-comparison was completed and evaluation done from 1st-3rd February 2011 in Kigali-Rwanda.
- ii. Workshop on small volume scheduled for 21st - 24th Sept 2010 in Dar es Salaam did not take place and has been rescheduled. Both NMIs and LMO have expressed interest to participate in this inter-comparison. CBE requests that they be invited to the protocol discussion workshops scheduled for next year.
- iii. The planned Dimensional inter comparison did not take place. Chairman working group length to make follow up.
- iv. The Mass Inter-comparison which was planned for January 2011 did not take place. The committee directed that the Chairman WG mass to liaise with TC 1 Chairman to facilitate the recalibration of the EAMET mass artefacts currently in the custody of KEBS. After the re-calibration, to initiate the mass inter-comparison as planned.
- v. The planned bilateral Force comparison between KEBS and NMISA did not take place due to unavoidable circumstances.

2.7.2 ISO/IEC 17025 Assessor Training.

- i. The three modules were completed; however Burundi was not able to attend the last two modules.
- ii. It was noted that Burundi participants require at least three weeks notice to be able to participate in these trainings/meetings.

Recommendation:

The committee recommends that the secretariat takes up this issue with relevant line ministries in the respective Partner States.

- iii. The planned ISO/IEC 17025 Mentorship programme did not take place, as funds could not be availed.

Recommendation:

The secretariat should seek for adequate funding for all activities of this sub- committee.

2.7.3 ISO/IEC 17020 Training for Legal Metrologists

Training was carried out in Kenya and Burundi for 38 and 3 officers respectively, whereas trainings in the other Partner States has been re-scheduled to the current calendar year..

2.7.4 Harmonization of Metrology regulations

Three meetings were initially planned for the harmonization of Metrology regulations, however only one took place from 2nd - 4th May 2011 in Nairobi.. In that meeting, 10 draft metrology regulations were developed covering the facilitation of free trade within the EAC customs union. These are hereto attached as **Annex III**

A number of regulations still need to be harmonized as scheduled in the current work plan.

Recommendation

- I, **The committee recommends that the EASC considers and adopts these Metrology regulations.**
- H, **The committee requests the Secretariat to seek for funds to facilitate the harmonization process.**

2.7.5 The 4th AFRIMETS General Assembly

The 4th AFRIMETS GA took place in Sharm el Sheik in Egypt from 20th - 23rd September, 2010. EAMET was represented by a delegation of four.

The draft AFRIMETS road map (Strategic plan) was presented in the GA. The road map was completed in a meeting that was held in Nairobi in April 2011..

2.7.6 AFRIMETS SUMMER SCHOOL

The 2011 AFRIMETS Metrology School took place from 7th -16th February 2011 in Nairobi-Kenya. Participants were drawn from across Africa and others from Canada, USA, and Nepal.. The school was graced with the presence of the Director of BIPM.

2.7.7 REGIONAL METROLOGY CONFERENCE (RMC)

The 5th RMC 2010 was held from 1st - 2nd December, 2010 in Mombasa-Kenya. The conference was attended by 80 participants drawn from NMIs, LMOs, Public and private enterprises. This was followed by a workshop for the working groups in EAMET on the 3rd December 2010.

3.0 REVIEW OF EAMET WORK PLAN AND CALENDAR 2011-2012

The meeting reviewed EAMET's calendar of activities, hereto attached as **Annex IV**.

4.0 CONSIDERATION OF REPORTS FROM EAC CONTACT PERSON(S) ON MATTERS FROM AFRIMETS AND OTHER INTERNATIONAL BODIES.

- i. The 4th AFRIMETS GA was held from 20th - 23rd September, 2010 in Sham EI Sheik in Egypt. The 5th AFRIMETS GA will be held in Nairobi from 17th - 22nd July 2011. Among other issues to be deliberated on will be the elections of the new executive committee members (EXCOM).

EAMET wishes to contest for the position of Chairman and therefore seeks support from the Partner States.

- ii. Kenya and Tanzania attended the 45th CIML meeting in Orlando-USA in 2010. The 46th CIML meeting is scheduled for 10th -14th October 2011 in Prague-Czech Republic.
- iii. The General Conference on Weights and Measures (CGPM) takes place every four years. The 24th CGPM is scheduled for 17th - 21st October in Paris- France 2011..
- iv. The 4th International Conference on Metrology was held in Jerusalem-Israel from 23rd - 24th May, 2011.. EAMET was represented by four participants from Kenya and Tanzania under the sponsorship of PTE.
- v. Tanzania is processing the application for associate membership to the CGPM. However, the UNIDO sponsorship for Rwanda and Uganda under AFRIMETS arrangement is no longer applicable.
- vi. No efforts were made by Partner States to take advantage of the ongoing OIML country needs assessment.



5.0 WORLD METROLOGY DAY

5.1 World Metrology Day 2010 with the theme "Measurements in science and Technology- a bridge to innovation" was commemorated as follows:

Burundi

Celebrations were done internally within Burundi Bureau of Standards (BBN).

Kenya

Celebrated with supplements from legal, Industrial and Scientific metrology, open half day ending at 1.00pm, the occasion was graced by Honourable Minister for Industrialization.

Uganda

Celebrations were not publicly commemorated.

Tanzania

TBS commemorated the day with a half day demonstration to public using mobile calibration unit, production and distribution of Brochures on importance of Metrology in daily life to customers and World Metrology Day Posters were also distributed to stakeholders.

Press releases by BIPM and BIML on World Metrology Day were published in the government newspaper.

WMA commemorated the day by educating the public and stakeholders in the field of sports on the need to have sports instruments calibrated. Sports related equipment were calibrated free of charge within WMA premises. This was to sensitize the public and sports fraternity on importance of measurements.

A number of health centres and clinics within Dar es Salaam were visited and equipment calibrated including baby weighing scales at no cost and some useful information on guidelines on accurate weighing were provided.

Articles on the event and the World Metrology Day were covered in the local dailies.

5.2 World Metrology Day 2011 with the theme "Measurements in Chemistry- Chemical measurements for our life, our future" were commemorated as follows:

Burundi

Burundi Bureau of Standards (BBN) invited people from various Industries to see the activities of the Metrology laboratories. Radio and other advertisements were made to publicize the activities of the Bureau.

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Uganda

Published an article on the event in the Standards journal, in one of the local dailies of May 2011.

Kenya

- Celebrated with supplements in one of the local dailies and an open half day of activities. The occasion was graced by the Honourable Minister for Industrialization.
- The National Prototype kilogram No.95 was officially presented after the launch of the upgraded mass laboratory.
- The KESS Universal Coordinated Time (UTC) was officially presented after the launch of the upgraded Time and Frequency laboratory.
- The testing laboratories were formally launched after refurbishment.
- The testing laboratories also celebrated 10 years of accreditation by United Kingdom Accreditation Service (UKAS).

Tanzania

A joint venture between TSS, WMA, Government Chemist and CSE, was spearheaded by WMA within Dar-es Salaam region to sensitize the public on the need for accurate measurements. The full day exercise focused on the health sector.

6.0 Any other business

6.1., The 14th EASC meeting directed the Metrology Subcommittee to look into the challenge of management of transit weigh bridges (Minute 4 iv),

The Kenya Weights and Measures department carried out a fact finding mission and prepared a report for discussion, hereto attached as **Annex V**.

The meeting noted the following:

- i. Challenges of multi agencies handling the transit weigh bridges. Agencies handling these are Road Authorities/Agencies, Traffic Police, Local Authorities etc.
- ii. Weights and Measures Agencies role is limited to verification of the transit weighbridges / Axle load weighers to ensure accuracy.
- iii. The different methods of overload determination e.g Axle load weighing (The axle load transmitted to the road) Vs Gross weight (Sum total of truck and load). This leads to discrepancies in weighment results of the same load at different locations.

LIST OF DELEGATES

UGANDA

1. John-Paul Musimami

Manager, Legal Metrology
Uganda National Bureau of Standards
P. O. Box 6329, Kampala, Uganda
Tel: +256414505995
Fax: +256414286123
Cell: +256712419204
E-mail: jpmusimami@unbs.go.ug

2. Yasin Lemeriga

Manager, National Metrology Laboratory
Uganda National Bureau of Standards
P. O. Box 6329, Kampala, Uganda
Tel: +256 414 505995
Fax: +256414286123
Cell: +256 772 459605
E-mail: yasin.lemeriga@unbs.go.ug or yasinlemeriga@hotmail.com

KENYA

3. Dennis Moturi

Chief Manager, Metrology
Kenya Bureau of Standards
P. O. Box 54974-00200, Nairobi, Kenya
Tel: +254206948295
Fax: +254206004031
Cell: +254722274149
E-mail: dmoturi@kebs.org

4. Dominic Otieno Ondoro

Manager, Mechanical Metrology
Kenya Bureau of Standards
P. O. Box 54974-00200, Nairobi, Kenya
Tel: +254206948287
Fax: +254206004031
Cell: +254722811113
E-mail: ondorodom@kebs.org

5. Kephers G. Ndika

Chief Weights and Measures Officer
Weights and Measures Department
Ministry of Trade
P. O. Box 41071-00100 GPO, Nairobi, Kenya
Tel: +254206004831
Fax: +254206000621
Cell: +254722418915
E-mail: kendika@yahoo.com

- 6. Francis Namuswa Mutibo**
Senior Weights and Measures Officer
Weights and Measures Department
Ministry of Trade
P. O. Box 1566, Bungoma, Kenya
Tel:
Fax:
Cell: +254720230708
E-mail: namuswafm@yahoo.com

TANZANIA

- 7. Ingram Kisamo**
Head of Metrology Laboratory
Tanzania Bureau of Standards
P. O. Box 9524, Dar es Salaam, Kenya
Tel: +255222450206/2450298
Fax: +255222450959
Cell: +255713260006/ +254752264022
E-mail: ijkisamo@yahoo.com
- 8. Ramadhan Mfaume**
Metrologist
Tanzania Bureau of Standards
P. O. Box 9524, Dar es Salaam, Tanzania
Tel: +255222450206
Fax: +255222450959
Cell: +255713568420
E-mail: kiramsam@yahoo.co.uk
- 9. Adv. Mosses Andrew Mbunda**
Head of Legal Services Unit
Weights and Measures Agency
P. O. Box 313, Dar es Salaam, Tanzania
Tel: +255222202199
Fax: +255222203200
Cell: +255 784 872373/ +255 767 675536/ +255 652 675536
E-mail: mbundama@yahoo.com
- 10. Jared J. Mushi**
Principal Weights and Measures Officer
Weights and Measures Agency
P. O. Box 313, Dar es Salaam, Tanzania
Tel: +255 22 2202199
Fax: +255222203200
Cell: +255786319711
E-mail: mushij@ymail.com

11. Constantine G. Mlela
Lecturer
College of Business Education
P. O. Box 1968, Dar es Salaam, Tanzania
Tel: +255222150177
Fax: +255222150122
Cell: +255754294910
E-mail: cmlela@yahoo.com

12. Philemon Dominick Msoke
Principal Tutor 1
College of Business Education
P. O. Box 1968, Dar es Salaam, Tanzania
Tel: +255222150177
Fax: +255222150122
Cell: +255 752 220828
E-mail: msokephilemon@yahoo.com

BURUNDI

13. Simeon MISIGARO
Deputy Head, Metrology and Standards Division
Burundi Bureau of Standards and Quality Control
P. O. Box 3535, BUjumbura, Burundi
Tel: +25722259074
Fax:
Cell: +257 79 940877/ +257 75 522452
E-mail: misimeon@yahoo.fr

14. HARIMENS Frédéric
Metrology and Standards Division
Burundi Bureau of Standards and Quality Control
P. O. Box 3535, BUjumbura, Burundi
Tel: +25722259074
Fax:
Cell: +25775906962
E-mail: harimenshi47@yahoo.fr

ANNEXII



EAST AFRICAN COMMUNITY SECRETARIAT

**15TH MEETING OF THE EAST AFRICAN STANDARDS COMMITTEE TECHNICAL
SUB-COMMITTEE ON METROLOGY (EAMET)**

30th May _lat June 2011

NAURA SPRINGS HOTEL, ARUSHA, TANZANIA

AGENDA

1. Opening of the meeting
2. Consideration of matters arising from the report of the 14th EASC Sub-Committee on Metrology meeting.
3. Review of EAMET Work plan and calendar: 2011 j 20 12
4. Consideration of reports from EAC contact person(s) on matters from AFRIMET and other International bodies
5. Reports of the regional activities on the celebration of World Metrology Day 2011
6. Any other business.
 - 6.1. Management of transit weighbridgesj Axle load weighers.

DRAFT EAC METROLOGY REGULATIONS (LIST)

1. DRAIT EAC BULK MEIERS REGULATIONS, 2011
2. DRAIT EAC DISPENSING PUMPS REGULATIONS, 2011
3. DRAIT EAC DRY MEASURES OF CAPACIY REGULATIONS, 2011
4. DRAIT EAC FABRIC MEASURING INSTRUMENTS REGULATIONS, 2011
5. DRAIT EAC INSPECTION REGULATIONS, 2011
6. DRAIT EAC LEATHER MEASURING INSTRUMENTS REGULATIONS, 2011
7. DRAIT EAC MEASURES OF CAPACIY REGULATIONS, 2011
8. DRAIT EAC PATTERN APPROVAL REGULATIONS, 2011
9. DRAIT EAC SPIRITS MEASURING INSTRUMENTS REGULATIONS, 2011
10. DRAIT EAC WEIGHING AND MEASURING EQUIPMENT REGULATIONS, 2011

NOTE

Copies (soft) of the above listed Draft EAC Metrology Regulations were handed over to the EAC Secretariat during the 15th meeting of the East African Standards Committee (EASC) held from 2nd to 3rd June 2011 at the Naura Springs Hotel, Arusha, Tanzania.

METROLOGY- TECHNICAL SUBCOMMITTEE (M TSC)
DIARYI ACTIVITY PLAN 2011/2012

MONTH	DATES	DAY	ACTIVITY	10	LOCATION	ReMARKS
MAY						
	2-4		Harmonization of Metrology regulations		Nairobi	EAC/PTB/Partner states
	20 th	Friday	World Metrology Day		Each partner state	EAC/PTB/Partner states
	30-31	Mon-Tue	EAMET MEETING		Arusha	EAC/PTB/Partner states
JUNE	1 st	Wednesday	EAMET MEETING		Arusha	EAC/PTB/Partner states
JULY						
			EAMET Mass inter comparison- Register with AFRIMETS and commence		-	Partner states
	20-22		Mentorship program I for 17025 assessors		Dar-es Salaam	EAC/PTB/Partner states
	11-15		ISO 17020 training to Legal Metrology staff members in Uganda		Kampala	Partner states/PTB
	17-22		AFRIMETS General Assembly		Nairobi	EAC/AFRIMETS SECRETARIAT
	25-26		KEBS Peer Evaluation on QMS by AFRIMETS		Nairobi	Tentative dates
AUGUST						
			Dimensional Metrology-Protocol workshop		Kigali/Nairobi	EAC/PTB/Partner States
			Mentorship program I for 17025 assessors		Nairobi	EAC/PTB/Partner states
SEPTEMBER						
			Small Volume inter-comparison - protocol workshop 5ml,100ml and 1 litre		Dar es Salaam	EAC/PTB/Partner States
	19-23		ISO 17020 training to legal metrology staff members Tanzania		Dar es Salaam	Partner states/PTB
OCTOBER						
	10-14		46 th CIML Meetinga		Prague- Czech	Partner States
	17-21		24 th General conference of Weights and Measures		Paris-France	Partner States
			TC 4 Meeting on the harmonisation of draft regulations.		Bujumbura	EAC/PTB/Partner States
NOVEMBER						

MONTH	DATES:	DAY	ACTIVITY	to	LOCATION..	REMARKS
	30 th		National Metrology Seminar		Mombasa	EAC/PTB/Partner States
DECEMBER	1 st - 2 nd		National Metrology Seminar		Mombasa	EAC/PTB/Partner States
JANUARY						
FEBRUARY						
			TC 4 Meeting on the harmonisation of draft regulations.		Kampala	EAC/PTB/Partner States
MARCH						
			Dimensional Metrology-Evaluation workshop		Kampala	EAC/PTB/Partner States
APRIL						
			Small Volume inter-comparison - 5ml,100ml and 1 litre-Evaluation workshop		Nairobi	EAC/PTB/Partner States
			SADCMETGA			Date and venue to be communicated

NB: EAC refers to EAC Secretariat

ANNEXV

MANAGEMENT, MAINTENANCE AND ACCURACY OF TRANSIT WEIGHBRIDGES/AXLE LOAD WEIGHERS.

Introduction:

Shaping the course of SQMT Activities in the East African Community;
Technical Sub-committee on Metrology:-

Introduction

Members of the EASC(Kenya) met at the Kenya Bureau of Standards on 23rd May 2011 to consider Kenyan position as regards transit weighbridges/ axle load weighers on management, maintenance and accuracy.

Background

In the last six years, the Kenyan government has invested heavily in the road network and it is committed to safeguard the investment in order to realise the intended benefits by ensuring that vehicles loading at the Port of Mombasa as well as the Kenya Pipeline Company depots comply with the permitted axle load limits as provided for under the **Road Traffic Act**.

In this regard an Inter-Ministerial committee was set up by H.E the President of the Republic of Kenya to work out modalities for compliance and hence protection of our roads. Stakeholders were brought on board in the spirit of Public-Private Sector Partnership.

As a result, an Inter-Ministerial Technical Committee comprising of Ministries of Transport, Roads, Trade, Energy and Office of the President (Kenya Police) was formed on 2nd September 2009 and they were to prepare a report on the following activities;

- Review of existing legislation and documentation on axle load control in Kenya.
- Conduct field visits to Motor Vehicle Inspection Units, Weights & Measures Department., axle load weigh bridges, cargo handling facilities, container terminals and oil depots among others; and
- Hold interviews and meetings with stakeholders in the road transport subsector..

Recommendations by the Technical Committee

- Gross vehicle weight/axle load limits to be enforced at loading points
- All firms handling or generating cargo for road transport to issue a standard loading certificate showing compliance with the permitted maximum gross vehicle weight.

- Oil tankers for bulk transportation with excess capacity to be re-fabricated and limit the gross weight of containerised cargo to 28 tons;
- Neighbouring states to provide common weigh bridges in one stop border posts to reduce delays of transit cargo;
- The management of existing axle load weigh bridges to be privatised competitively to respectable firms.

As a result of observations made during the 14th EASe meeting in May 2010 in Arusha and a further consultative meeting held at the Kenya Bureau of Standards on the 23rd May 2011 by the Kenyan delegation to the EASe, representatives from the Weights and Measures Department carried out a fact finding mission which established the following;-

- That the management and maintenance of axle load weighers along major highways have been privatised.
- That contracted maintenance scale companies calibrate the axle load weighers once every month to ensure and maintain accuracy.
- That stipulated fines for overloading range between Kshs. 10,000/= to Kshs. 400,000/= for a range of between 2 tons to 20 tons overload;
- That both the owner and driver are jointly liable to the stipulated fines on conviction;
- That by September 2010 the number of offenders was high leading to a collection of Kshs. 14M in form of court fines from Mlolongo weigh bridge and the same had since dropped to Kshs. 7M by April 2011. This shows that many companies and drivers have exhibited improved compliance;
- That a few truck drivers (fuel tankers) abscond (fail to have their trucks re-weighed at Mlolongo) by deliberately driving away without stopping;
- That the personnel manning the axle load/weighbridge centres are neither trained nor licensed;

Recommendations

- Absconding trucks other than being reported to the oes should also be reported to the Weights and Measures Department for enforcement.
- Provide for a security check point immediately after axle-load/weighbridge check weighing centre so as to net absconding road tanker drivers.

- Axle load/weighbridge centres to be manned by trained and licensed personnel..
- Check weighing systems in the EAC member states to be harmonized; or alternatively member states to adopt one system of check weighing.
- The verification of axle load /weigh bridges by the Weights and Measures Department be enhanced from once a year to thrice a year due to the high frequency of use.
- Diverted roads leading to axle load/weigh bridge weighing centres should be made of compacted concrete of not less than 20m in length so that the transmission of the axle load is direct and that the parking yard should be devoid of potholes and be well drained.
- Axle load/weigh bridge checking centres should be far removed from the highway to avoid creating unnecessary traffic jams and inconvenience to other road users.

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REPORT OF THE MEETING

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The meeting was held in accordance with the calendar of EAC activities for the period May 2010 to May 2011. It was attended by delegates from four of the five partner states, namely: Burundi, Kenya, Uganda and Tanzania. The list of delegates is hereto attached as Annex I.

2. Adoption of the Agenda

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3. CONSIDERATION OF MATTERS ARISING FROM THE 14TH MEETING OF EASC SUB-COMMITTEE ON METROLOGY MEETING HELD FROM 10TH - 12TH MAY 2010;

3.1 Follow up on existing measurement capabilities

The meeting agreed on among others the following: as the metrology data base administrators: Stephen Mboloi and John Nguqi Mwaura for Kenya; Ingram Kisamo and Alban Mark Kihula for Tanzania; Yasin Lemeriga and Kitimbo Lawrence for Uganda; Frederic Harimenshi for Burundi and Patrice Ntiyamira of Rwanda.

3.2 EAC Web Portal.

The meeting noted that the person responsible for administration of the EAC Quality web portal is no longer available for this work.

Recommendation

The committee recommends that competent persons from the NSBs and Legal Metrology Organizations be sought to enable a person be appointed to manage this web portal and also provide for their retention to this position.

3.3 Draft EAC Metrology Bill.

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3.4 EAMET work plan 2010/2011

3.4.1 Measurement inter-comparisons

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- ii. Workshop on small volume scheduled for 21st - 24th Sept 2010 in Dar es Salaam did not take place and has been rescheduled. Both NMIs and LMO have expressed interest to participate in this inter-comparison. CBE

requests that they be invited to the protocol discussion workshops scheduled for next year.

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- i. The three modules were completed; however Burundi was not able to attend the last two modules.
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Recommendation:

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EAMET wishes to contest for the position of Chairman and therefore seeks support from the Partner States.

- ii. Kenya and Tanzania attended the 45th CIML meeting in Orlando-USA in 2010. The 46th CIML meeting is scheduled for 10th -14th October 2011 in Prague-Czech Republic.
- iii. The General Conference on Weights and Measures (CGPM) takes place every four years. The 24th CGPM is scheduled for 17th - 21st October in Paris- France 2011.
- iv. The 4th International Conference on Metrology was held in Jerusalem-Israel from 23rd - 24th May, 2011. EAMET was represented by four participants from Kenya and Tanzania under the sponsorship of PTB.

8. WORLD METROLOGY DAY

a. World Metrology Day 2010 with the theme "Measurements in science and Technology- a bridge to innovation" was commemorated as follows:

b. World Metrology Day 2011 with the theme "Measurements in Chemistry- Chemical measurements for our life, our future" were commemorated as follows:

9. Any other business

The 14th EASC meeting directed the Metrology Subcommittee to look into the challenge of management of transit weigh bridges (Minute 4 tv).

The Kenya Weights and Measures department carried out a fact finding mission and prepared a report for discussion, hereto attached as **Annex V**.

Recommendation

The committee recommends as follows:

- i. An all inclusive meeting/workshop for stakeholders and experts from the Partner States, taking into consideration any other initiatives on the matter, be convened.**
- ii. All stakeholders involved in the management, maintenance and accuracy of transit weighbridges/ Axle load weighers are involved in any initiatives or activities to resolve this matter.**

10. CONCLUSION

This report of the 15th EAMTSC is hereby presented for consideration by EASC.

THANKYOUFORLISTENING