



AFRIMETS
Intra-Africa Metrology System
Système Intra-Africain de Métrologie



2014 TC-EM Report to GA

Presented by: Alexander Matlejoane

Date: 19 June 2014

**AFRIMETS TC-EM committee meeting,
16th to 17th June 2014, Addis Ababa, Ethiopia**





TC-EM Terms of reference

TC-EM comparison plan

TC-EM Comparison procedure

TC-EM intra RMO CMC review procedure

TC-EM Inter RMO CMC reviews

2014-2016 TC-EM executive committee members





TC-EM Terms of reference

The following terms of reference were discussed and adopted by AFRIMETS TC-EM :

Membership : All AFRIMETS member NMIs and designated organisations

Executive committee : Chairperson, vice chairperson, secretary and vice secretary


Elections : Two year intervals

Executive committee is nominated by members

One vote per institute and nominated members are excluded from voting

Meetings: Annually during AFRIMETS GA

Responsibilities :

- Participation in CCEM and related WG meetings
 - Implementation of WG-RMO resolutions
 - Intra RMO CMC reviews for member NMIs and designated organisations
 - Inter RMO CMC reviews for other RMOs
 - Co-ordinate RMO comparisons
 - Co-ordinate RMO technical workshops
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TC-EM comparison plan

Planned date	Identifier	Description	Participants
January 2015	AFRIMETS.EM-S1	Dc resistance at 1 Ω and 10 k Ω	NMISA, LPEE/LNM, TUN DEF-NAT, KEBS, BOBS, SIRDC, NMIE, UNBS
January 2016	AFRIMETS.EM-S2	Dc voltage at 1,018 V and 10 V reference	NMISA, LPEE/LNM, TUN DEF-NAT, KEBS, BOBS, SIRDC, NMIE, UNBS
January 2017	AFRIMETS.EM-S3	Digital Multimeter, ac voltage, ac current and dc current. (Measurement parameters will be finalised at a later date)	NMISA, LPEE/LNM, TUN DEF-NAT, KEBS, BOBS, SIRDC, NMIE, UNBS



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TC-EM comparison procedure

Pilot laboratory circulates a draft comparison technical protocol

Members review technical protocol

Pilot laboratory incorporates comments into final version

Pilot laboratory circulates final comparison technical protocol





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TC-EM intra RMO CMC review procedure

- 1- NMI sends a request for CMC review to TC-EM chairperson
- 2- Chairperson downloads CMC spread sheet template from JCRB website and send to NMI
- 3- NMI updates spread sheet with proposed CMCs and supporting information
- 4- NMI submits updated CMC file to TC-EM chair for distribution to CMC committee members for review
- 5- Chairperson decides and communicate review deadline to CMC review committee members
- 6- CMC review committee members discusses discrepancies directly with NMI and the reviewer sends the approved CMC spread sheets to chairperson at least a week before set deadline
- 7- Chairperson consolidates into one spread sheet and send to requesting NMI for concurrence
- 8- Chairperson uploads CMC spread sheet on JCRB website for Inter RMO review



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TC-EM Inter RMO CMC reviews

- 1- Chairperson downloads RMO CMCs file from JCRB website and send to review committee members
- 2- Reviewers will conduct the review within set deadline and send their approved CMC files to chairperson
- 3- Chairperson will consolidate the reviewers comments into one file and upload to JCRB website





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Chairperson :

Alexander Matlejoane, NMISA, South Africa

Vice chairperson :

Mejdi Benchâbane, Laboratory Defence National (def-nat\ANM), Tunisia

Secretary :

Abdellah ZITI, Laboratoire Public d'Essais et d'Etudes/Laboratoire National de Metrologie (LPEE/LNM), Morocco

Vice secretary :

Given Kalonga, Zambia Bureau of Standards (ZABS), Zambia

