



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



# **2021 AFRIMETS TC-Mass and Related Quantities Activity Report**

**Presented by: Thomas Mautjana**  
**April 2021**

# Meetings

AFRIMETS.TC Meetings are held annually in conjunction with the AFRIMETS GA

- The last TC-M meeting was held in July 2019 in Cairo, Egypt with representatives from 14 countries.
- The TC-M scheduled for July 2020 was cancelled due to Covid-19 pandemic
- The next meeting is scheduled for July 2021 and it will be online.

# Structure of AFRIMETS.TC-M

- AFRIMETS mirror the CCM structure.
- AFRIMETS.TC M – Chair: Mr Thomas Mautjana, Vice Chair: Mr Dominic Ondoro
- AFRIMETS. TC Mass and Related Quantities has the following active working groups:

Sub Working Group	Chair	Vice Chair
Density and Viscosity	Prof Dr Mostafa Mekawy (NIS-Egypt)	Ms Beatrice Lugadiru (KEBS-Kenya)
Force and Torque	Dr Khaled Abdelaziz (NIS-Egypt)	Mr Bangi Josephat (KEBS-Kenya)
Fluid Flow	Ms Deona Jonker (NMISA-South Africa)	Dr Ali Zahran (NIS-Egypt)
Mass	Mr Thomas Mautjana (NMISA-South Africa)	Mr Lhossain Mechkour (LPEE-LNM –Morocco)
Pressure and Vacuum	Dr Shaker Gelany (NIS-Egypt)	Mr Prince Tawiah (GSA-Ghana)

## Update on AFRIMETS.TC-M Comparisons

Identify	Quantity/Range	Field	Status	Pilot
AFRIMETS.M.M-S6	0.1 g - 5 kg	Mass	Completed	NMISA
AFRIMETS.M.FF-K4.2.2015	100 $\mu$ L	Fluid Flow	Completed	NIS/IPQ
AFRIMETS.M.F-S2	500 kN	Force	Completed	KEBS
AFRIMETS.M.D-S4	(0.65-0.7 & 1.2 - 1.25) kg/m <sup>3</sup>	Density (Hydrometers)	Draft B report	NIS/CENAM
AFRIMETS.M.M-K7	0.5 g - 5 kg	Mass	Draft A	NIS/METAS
AFRIMETS.M.P-K2	(10 to 110) kPa	Pressure	Measurements in progress	NMISA
AFRIMETS.M.FF-S1	(50 - 5 000) mL/min	Fluid Flow	Measurements in progress.	NMISA/MIKES
AFRIMETS.M.F-S1	(10 & 100) kN	Force	Draft A	KEBS

# Update on Comparisons longer than 5 years

## **AFRIMETS.M.P-K2**

- Comparison was initially registered in 2012/13
- Artefact was stuck in Tunisia from 2015 to 2018
- Contact person resigned from the Pilot laboratory in 2015
- The ILC was re-started again in 2019 with slightly changed list of participants, however, status is not yet updated on KCDB 2.0
- Last laboratory to complete measurements April/May 2021



Thank You