



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



TCL WG
Length/dimensional feedback
2021

O Kruger



TCL Meeting

The TCL Meeting was held on the 13th July.

The meeting, Virtual was attended by 9 NMIs

The meeting focused on:

- Comparisons
- CMCs
- R&D activities



Agenda

Item	
Welcome	Chairperson
Introduction	All
Additions to and adoption of agenda	All
Minutes of previous meeting?	Chair
Comparisons	
Currently ongoing / planned	
<ul style="list-style-type: none"> Gauge blocks by interferometry Afrimets LS. K1, NMISA is pilot Gauge blocks by comparison, Egypt as pilot? Hand held instrumentation - SADC MET LS 5? Hand held instrumentation- Afrimets Egypt is pilot Any other comparisons? 	<p>Mr Masina</p> <p>Dr Terra</p> <p>Ms Nzimande</p> <p>Dr Terra</p>
CMC review report	Chair
CMC submission and review:	All
Countries submitting CMCs.	
Feedback for NMIs:	All, with virtual meeting still want to?
NMIs to give feedback from their labs, in presentation or just verbally,	
Focus on:	
Services, R&D, CMC submission, Comparisons currently and required, etc.	
Training: Always plan but not executed	Chair
R&D activities:	Chair with feedback from All
Many plans but not may executed,	
Suggest 1:	
<ul style="list-style-type: none"> CT Scanner 	



<p>Feedback for NMIs:</p> <p>NMIs to give feedback from their labs, in presentation or just verbally,</p> <p>Focus on:</p> <p>Services, R&D, CMC submission, Comparisons currently and required, etc.</p>	<p>All, with virtual meeting still want to?</p>
<p>Training: Always plan but not executed</p>	<p>Chair</p>
<p>R&D activities:</p> <p>Many plans but not may executed from 2019,</p> <p>Suggest 1:</p> <ul style="list-style-type: none"> • CT Scanner • Surface texture • Long distance, EDMs • Level • Any other R&D projects with any other countries which we can identify? 	<p>Chair with feedback from All</p>
<p>Projects running:</p> <ul style="list-style-type: none"> • Additive Manufacturing -3D printer • Laser workshop 	<p>Chair/O Kruger</p> <p>Mr P Masina</p>



Length Comparisons for 2021

•Comparisons currently running:

1) AFRIMETS LK 1: End Standards, gauge blocks by interferometry – NMISA Pilot

2) AFRIMETS LS 1: End standards, gauge blocks by mechanical measurement – NIS to pilot.

3) AFRIMETS LS 5: Hand held measuring instruments – NIS pilot is nearing completion Artifacts:

External Micrometer 0-25 mm; DTI: 0-25mm; Caliper: 0-150 mm

Optional: Micrometer setting rods; Feeler Gauges; Pin Gauges

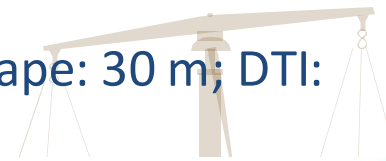
13 NMIs participating

4) SADC MET LS 5: Hand held measuring instruments – 4 NMI pilot labs

Artifacts:

Micrometer: 0-25 mm, 50-75 mm; Caliper: 0-150 mm, 0-500 mm; Tape: 30 m; DTI: 0-25mm

9 NMIs participating



Training

Sharing of all training available via country reports

Technical training			
Basic length	ongoing		
Gauge block by interferometry, including basic distance interferometry			
Level calibrations			
Long distance base line, including GPS.			
Length bars/long serious slip gauges			
Other training			
CMC submission			
Pilot of comparisons			



Capacity Building projects PTB sponsored

- **Laser workshop, combined with calibration of EDMs; on hold till travel is allowed**
- **Additive Manufacturing (3D printing) project; Suppling of printers for 6 NMIs – Printers delivered to the various NMIs**
- **Tape Tunnel project; design, building and training of two Tape Tunnels Afrimets NMIs – Planned**
- **Level calibrations – Planned**



The end

