# 19th CCM Meeting

# **Activity Report of RMO APMP - TCM**



Dr. S.S.K.Titus, APMP TCM Chair NPLI, India

25 – 26 May 2023





## **TCM Meeting - APMP**

- ➤ The 23<sup>rd</sup> Technical Committee Meeting on Mass related quantities took place during 9 11 Nov 22
- First and Second day programme was devoted to Technical Presentations on the recent developments on Mass related parameters and the third day country reports and TCM matters
- More than 100 participants from about 20 different economies participated in the meeting
- About 25 presentations were made by the participants.

# **TCM Meeting - Agenda**

- Confirmation of Minutes of 22<sup>nd</sup> TCM meeting
- > TCM Chair Report
- Matters arising from the 22<sup>nd</sup> TCM meeting
- Mid-year meetings TCC/EC Action and resolution
- WG Matters
- Discussion of CMC related matters/ Review team
- > Status comparisons/ on-going and new
- > TCI Projects
- Other business
- Closing Remark



# Participants in the 23<sup>rd</sup> TCM Meeting



Technical Peer Review Approved / Conducted				
NMI	Parameter			
NIMT, Thailand	Force			
KIRSS, Korea	Hardness			
NMIJ, Japan	Force, Torque, Mass and Density			
SCL, Hong Kong	Mass, density, volume, pressure, force, torque and hardness measurements			
NIMT, Thailand	Gravity			
NMIM, Malaysia	Pressure, Mass, Density			
NIM, China	Mass, Pressure			
MASM, Mongolia	Mass			

New CMCs Published in the KCDB				
NMI	Parameter and Number			
SNSU-BSN, Indonesia	One CMC in Torque			
NMIJ, Japan	Five new and revised CMCs in pressure			
NMIJ, Japan	Two CMCs in gauge pressure for liquid medium			
MUSSD, Sri Lanka	The first CMC in Pressure			
ITDI, Philippines	One new CMC in Pressure			

<b>Status</b>	of	Com	nari	son
otatas			Pai	

APMP.M.M-S2	Protocol completed
APMP.M.M.K5	Final Report Submitted
APMP.M.D-K4	Final Report Submitted
APMP.M.F.K3.a	Report under preparation
APMP.M.F.K3.b	Report under preparation
APMP.M.P.K4	Measurement completed
APMP.M.P.K7.2	Final Report Prepared
APMP.M.P.K15.	Draft A under preparation
APMP.M.P-S7	Final Report Prepared
APMP.M.H-S5	Final Report Prepared
APMP.M.H-S6	Final Report Prepared

## **CMC Related Matters**

#### **CMC Review Process**

- ❖ Intra-RMO Review Process Most of the Intra RMO CMCs submitted are assigned for review
- ❖ Inter-RMO Review Process Some of the Inter RMO CMCs are assigned and reviewed due to limitations and constraints.

#### **Limitations:**

Reviewers availability, to accept, review and post the report Writer to track and provide with the necessary clarification Others/ too many CMC entries in one review task Encourage more reviewer to register

## Requirement of comparison

#### From MUSSD, Sri Lanka

- Comparison need for the pressure range 10 kPa up to 350 kPa (absolute mode, Gas) CCM. P.K16
- Comparison need for the pressure range 5 kPa up to 350 kPa (gauge mode, Gas) CCM.P-K17
- Comparison need for the pressure range 0 kPa up to 5 kPa (gauge mode, Gas)
- Comparison need for the pressure range -100 kPa up to 0 kPa (gauge mode, Gas)
- Comparison need for the pressure range 350 kPa up to 7 MPa (absolute mode, Gas) CCM.P-18

#### From NPLI

- > 1 kg mass standards undertaken by CCM on the dissemination of the kilogram.
- Pneumatic pressure in any range between 0.04 to 4 Mpa.
- > Hardness- Brinell, HRC

## **Initiative for New Comparison**

Dr. Lee Shih Mean, A-Star, Singapore proposed a 50 kg mass comparison for which the protocol would be prepared by the second half of 2023 and circulated for potential participants.

Dr. Kajikawa, NMIJ, Japan and Dr. Choi, KRISS, Korea would pilot the APMP link comparison for CCM. P.K16, CCM.P-K17 and CCM.P-K18 once they are completed, involving 3 - 4 NMIs each in the APMP region. It would happen only after a year.

A Key comparison in Pressure has been presented by C. Meyer, NIST, USA and NPLI in the range of 0.4 – 4.0 Mpa. For registration the KCDB.

### **Other Matters**

#### CMC Task Force

Supporting the DEC initiative for establishing CMCs in mass for the developing economies (JNMI, Jordan; MUSSD, Sri Lanka; NMC, Cambodia; BSTI, BRICM Bangladesh).

- ❖ Regarding TCI Projects the Following Process was Discussed for Encouraging Participation
- Calls for TCl and FGl Projects
- Eligibility
- Application Forms
- Evaluation
- Duration

# **Acknowledgment**

## My Heartfelt Thanks to:

All the TCM colleagues, for giving their valuable time and cooperation.

All the TCM experts and reviewers for their great effort and support in the technical review task.

The APMP Secretariat, NPLI Director and the team for their kind support in enabling me to organize the TCM meeting successfully.

**CCM** President for the opportunity to present this report

# Thank You