



National Accreditation Board for Testing and Calibration Laboratories (NABL)

Policy on Calibration and Measurement Capability (CMC) and Measurement Uncertainty in Calibration

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AMENDMENT SHEET

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1. INTRODUCTION

ISO/IEC 17025: 2017 requires calibration and testing laboratories to have and apply procedures for the evaluation of measurement uncertainty. ISO 15195 and ISO 17034 have similar requirements for reference measurement laboratories and reference material producers. Specific guidance on the evaluation of measurement uncertainty can be found in the ISO/IEC Guide 98-3:2008 - "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM: 1995)". This Guide establishes general rules for evaluating and expressing uncertainty in measurement that can be followed in broad spectrum of physical and chemical measurements. This Guide also describes an unambiguous and harmonized way of evaluating and stating the uncertainty of measurement results obtained in testing and calibration laboratories.

In order to enhance the harmonization in the expression of uncertainty of measurement on calibration certificates and on scope of accreditation of calibration laboratories, ILAC has published a policy document ILAC P14: 09/2020 "ILAC Policy for Measurement Uncertainty in Calibration". ILAC and BIPM have also agreed to harmonize the terminology namely the "Best Measurement Capability (BMC)" used on scopes of accreditations of calibration laboratories in line with the "Calibration and Measurement Capability (CMC)" of the Appendix C of the KCDB (Key Comparison Data Base) of CIPM MRA used to indicate the capabilities of National Metrology Institutes.

2. SCOPE

This document sets forth the NABL policy regarding the requirements for the:

- 2.1 Evaluation of the calibration and measurement capability (CMC), which forms part of scope of accreditation of calibration laboratories
- 2.2 Evaluation of uncertainty of measurement in calibration and measurement
- 2.3 Reporting of measurement uncertainty on the certificates of calibration and measurement.

The document is in line with ILAC-P14:09/2020 'ILAC Policy for Measurement Uncertainty in Calibration'.

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