



**United Accreditation Body of India**

# **Policy on Traceability of Measurement Results**

## AMENDMENT SHEET

<b>S.No</b>	<b>Page No.</b>	<b>Clause No</b>	<b>Amendmen No</b>	<b>Amendment</b>	<b>Reason for Change</b>	<b>Sign QM</b>	<b>Sign CEO</b>
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### **UNITED ACCREDITATION BODY OF INDIA**

Doc No. UABI 424	Doc Name: Policy on traceability of measurement of result	
Issue No. 1	Issue Date: 02.04.2019	Issued By QM:
Amendment No. -----	Amendment Date: ----	Approved By CEO:

## 1. PREAMBLE

To ensure confidence in the results of accredited CABs, UABI implement International policies and use guidance documents to assist in the uniform and harmonised approach of accreditation criteria.

Metrological traceability requires an unbroken chain of calibrations to stated references, all having stated uncertainties – also refer ISO/IEC Guide 99:2007 - International vocabulary of metrology (VIM) -- Basic and general concepts and associated terms.

This document is in line with ILAC/APAC documents for traceability of results.

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## 2. Terms and Definitions

The following definitions apply throughout this document:

**Metrological traceability** – Property of a measurement result whereby the result can be related to a reference through a documented unbroken chain of calibrations, each contributing to the measurement uncertainty.

**Note:** *In ISO/IEC 17025:2017 and ISO 15189:2012 the term “traceability” is equivalent to the VIM’s “Metrological traceability” and the term “traceability” is used throughout this document.*

**Metrological traceability chain** – Sequence of measurement standards and calibrations that is used to relate a measurement result to a reference.

**Metrological traceability to a measurement unit** Metrological traceability where the reference is the definition of a measurement unit through its practical realization

**Note:** *The expression “traceability to the SI” means metrological traceability to a measurement unit of the International System of Units.*

**NMI** – National Metrology Institutes (NMI) and Designated Institutes (DI) maintain standards in countries (or regions) all over the world. Throughout this document, the term “NMI” is used to cover both National Metrology Institutes as well as Designated Institutes.

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### 3. SCOPE

This document describes the UABI policy with regard to the metrological traceability requirements from ISO/IEC 17025:2017 and ISO 15189:2012. The traceability is as per requirements of "International policy on traceability of measurement results".

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#### 4. UABI POLICY

**(A)** UABI recognizes calibration of equipment and reference standards from:

- (1) National Physical Laboratory (NPL, India) or any NMI whose service is suitable for the intended need and is covered.
- (2) UABI accredited calibration laboratory or a calibration laboratory accredited by any other accreditation body whose services is suitable for the intended purpose or CAB accredited from APAC or ILAC accreditation body.

**(B)** There are certain calibrations that currently cannot be strictly made in SI units. In these cases calibration shall provide confidence in measurements by establishing traceability to appropriate measurement standards such as by participation in quality control program or use of SRM/CRM which give reliable physical or chemical characterization of a material.

The situation B can only be applied in the case in which the laboratory has demonstrated that the policy A cannot be met. This evidence shall be documented for point B if condition of A is not met and the documentation shall be assessed UABI.

**(C)** If the calibration of instruments contributes significantly to the overall uncertainty, the above policy for traceability applies.

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