

# 2022 | COOMET DIRECTORY

as of 1 December 2022



This edition of the COOMET Directory was prepared by the acting COOMET Secretariat and published in two versions, Russian and English, the official languages of COOMET. The information about metrology infrastructure in the COOMET Member Countries was updated and kindly provided to the COOMET Secretariat by these countries.

Your questions or remarks concerning the material given in the Directory are welcome to [coomet@belgim.by](mailto:coomet@belgim.by)

The electronic version of the COOMET Directory is available:

- on the COOMET web-portal at [www.coomet.net](http://www.coomet.net)
- and on the COOMET website at [www.coomet.org](http://www.coomet.org)

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## INFORMATION ABOUT COOMET

**COOMET** is a regional organisation originally establishing cooperation of national metrology institutions of the countries of Central and Eastern Europe. It was founded in June, 1991 and renamed as **Euro-Asian Cooperation of National Metrological Institutions** in May, 2000. COOMET is officially recognized as a regional metrology organization (RMO) and a regional legal metrology organization (RLMO). COOMET is open for any metrology institutions from other regions to join as associate members.

Currently the members of COOMET are metrology institutions of *Armenia, Azerbaijan, Belarus, China* (Associate Member), *Bosnia and Herzegovina* (Associate Member), *Bulgaria, Georgia, Germany* (Associate Member), *Kazakhstan, Kyrgyzstan, Cuba* (Associate Member), *Lithuania, Moldova, Russia, Slovakia, Tajikistan, Turkey* (Associate Member), *Uzbekistan and Ukraine*.

### **Vision of COOMET**

Efficient, representative, competent regional metrology organization, regognized by the international community.

### **Mission of COOMET**

Raising the level of metrology development, support and expansion of an integrated measurement infrastructure for countries in the Euro-Asian region and other interested countries that makes it possible for every national metrological institute to promote innovation, competitiveness, trade, consumer safety, sustainability and ensuring international recognition.

### **The objectives of COOMET** are as follows:

- to contribute to effectively solving the issues of ensuring the uniformity of measurements, to raising the level of metrology development of the countries in the Euro-Asian region and other stakeholders, to supporting and expanding an integrated measurement infrastructure for the countries in the Euro-Asian region and other interested countries that makes it possible for every National Metrology Institute to promote innovation, competitiveness, trade, consumer safety, sustainability and ensuring of international recognition.
- to function as a forum for cooperation in the field of scientific and legal metrology.

The basic activity of COOMET is cooperation in the following fields: measurement standards of physical quantities, legal metrology, quality management systems, information and training and joint innovative research.

**COOMET countries cooperate in the following subject fields:** acoustics, ultrasound, vibration; electricity and magnetism; flow measurement; ionising radiation and radioactivity; length and angle; mass and related quantities; photometry and radiometry; physical chemistry; thermometry and thermal physics; time and frequency; reference materials; general questions concerning measurements (general metrology); legal metrology; quality management systems; information and information technology; training and raising proficiency level of experts; joint innovative research in metrology.

In its activities COOMET is guided by **the Memorandum of Understanding (MoU)** and **Rules of Procedure**.

The supreme body of COOMET is **the COOMET Committee** consisting of Heads of national metrology institutions from COOMET Member Countries, or their representatives. The Committee organises and promotes cooperation. The Committee meets at least once a year.

**The COOMET President** is elected by the Committee from among its Members for a three year period with an option of one more term of office. The President provides **the COOMET Secretariat** by using resources of his/her own institution.

The President proposes candidates of **COOMET Vice-Presidents** from among the Members of the Committee for further approval by the Committee. The President, Vice-Presidents and Head of the COOMET Secretariat constitute **the COOMET President's Council**, which decides upon the COOMET policy, interacts with international and regional metrology organisations, coordinates cooperation in the period between the Committee meetings and distinguishes problems to be discussed at these meetings.

Organisation of work in the basic fields and directions of cooperation is the major task of **the Structural Bodies of COOMET (the Joint Committee, Technical Committees, and Quality Forum)**.

COOMET Presidential Council can initiate establishment of **Task Groups (TG)** within COOMET and determine their lifespans (membership of TGs is formed under COOMET projects).

The Joint Committee consists of the Chairs of the Technical Committees on the types of measurements (Acoustics, Ultrasound, Vibration; Electricity and magnetism; Flow measurement; Length and angle; Mass and related quantities; Photometry and radiometry; Physical chemistry; Ionizing radiation and radioactivity; Thermometry and thermal physics; Time and frequency), as well as the Chairs of the Technical Committee on General questions concerning measurements (General Metrology) and the Technical Committee on Reference materials.

The Committee Members appoint their representatives to the Structural Bodies of COOMET (**Technical Committees, Quality Forum**), which become official Structural Bodies members. Those official Structural Bodies members propose a candidate for the position of **the Chair of a Structural Body** for its further approval by the COOMET Committee.

The Structural Bodies can establish **Subcommittees (SCs)** for working on routine tasks of cooperation and **Working Groups (WGs)** within corresponding SCs/TCs for carrying out specific work on COOMET projects.

**The official languages** for the COOMET meetings and documents are **Russian** and **English**.

COOMET has no financial assets of its own.

By its scope of cooperation COOMET belongs to organisations of a multi-purpose type.

The activities of COOMET are carried out with **the Strategy for 2020-2025. Strategic tasks:**

- A. Facilitation of international recognition of national measurement standards.
- B. Facilitation of recognition of QMS of NMIs/DIs of COOMET member countries.
- C. Support of COOMET member countries in gaining the status of membership in the Metre Convention.
- D. Facilitation of international practice in legal metrology.
- E. Facilitation of advanced training and knowledge transfer in COOMET member countries.
- F. Organization of innovative scientific research in the field of metrology.
- G. COOMET internal development and external representation.

The implementation of these tasks is carried out by COOMET Development Programmes for a period of three years approved by the COOMET Committee.

An important prerequisite of COOMET effectiveness is the collaboration in all fields of activities. Jointly realised projects are the core elements of **the COOMET Working Programme**.

Nowadays the main attention is paid to the cooperation in the field of **measurement standards**, in particular to the implementation of the Mutual Recognition of National Measurement Standards and of Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA). Therefore, the majority of the COOMET projects are dedicated to the preparation of information on calibration and measurement capabilities (CMC), participation in key comparisons of national measurement standards

organised by CIPM and organisation of regional comparisons of measurement standards, as well as creation and implementation of Quality Management Systems of the National Metrology Institutes and Designated Institutes of COOMET Member Countries.

The subjects of cooperation of COOMET Member Countries in the field of **legal metrology** encompass a broad range of questions including exchange of information on international requirements and best practices in the field of legal metrology, translation into Russian of documents on metrology of international metrology organizations and provision of guidance on the application of the requirements of international organizations' publications regarding measuring instruments and methods for their testing, as well as other objects of legal metrology at the national level.

COOMET activities in the field of **information support and training** are also substantially related to the implementation of the CIPM MRA (e.g. in developing software for the CMC database and comparisons of measurement standards of the NMIs and Designated Institutes of COOMET Member Countries). It is also aimed at the exchange of training programmes for experts in the area of metrology, development of exchange programmes for experts in COOMET countries, determination of criteria for assessing scientific papers of young metrologists, etc. An important activity is holding (once every two years) of the competition "The Best Young Metrologist of COOMET".

A new field of COOMET activities is to provide support to **COOMET countries with emerging metrology systems (CEEMS)** in accordance with their needs (in terms of organization of comparisons, calibrations, trainings, etc.)

COOMET is a member of the Joint Committee of the Regional Metrology Organisations and the BIPM (JCRB) and keeps close relations with OIML according to the Agreement with the International Bureau of Legal Metrology (BIML) signed in 1993.

COOMET cooperates with the following Regional Metrology Organizations:

- European Association of National Metrology Institutes (EURAMET),
- Asia-Pacific Metrology Programme (APMP),
- Intra-African Metrology System (AFRIMETS),
- Inter-American Metrology System (SIM),
- GULF Association for Metrology (GULFMET).

Based on mutual interests, COOMET also cooperates with metrology organisations such as:

- European Cooperation in Legal Metrology (WELMEC),
- Asia-Pacific Legal Metrology Forum (APLMF),
- Euro-Asian Council for Standardization, Metrology and Certification (EASC),
- National Conference of Standards Laboratories International (NCSLI),
- International Measurement Confederation (IMEKO).

COOMET is a joint forum of metrologists of Euro-Asian region, effectively working regional metrology organisation which successfully fulfils its tasks according to approved long term programmes. Cooperation within COOMET and its outcomes allow its member countries to succeed in meeting metrological challenges, faced by a national economy in the globalized market, which is necessary to facilitate and accelerate the international exchange of goods and services.



# MEMORANDUM OF UNDERSTANDING

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# DOCUMENT COOMET D1/2022

## MEMORANDUM OF UNDERSTANDING

The National Metrology Institutions on behalf of which this Memorandum has been signed considering:

- the territorial proximity of the countries and their mutual economic relations;
  - the need to permanently improve metrological services for the benefit of economic and scientific relations;
  - the similarity of their structures and the operational principles of their national metrology infrastructures;
  - their combined experience and the results of their previous bilateral and multilateral cooperation;
  - their willingness to more closely cooperate with international and regional metrology organisations
- declare their intention to cooperate in the field of measurement standards of physical units, legal metrology, quality management systems, information technology, training and knowledge transfer in the field of metrology within the COOMET organisation given below.

### SECTION 1 – COOMET MEMBERS

COOMET is an organisation for the Euro-Asian cooperation of National Metrology Institutions (from the countries of Central and Eastern Europe, Asia and nearby countries) and is open to the National Metrology Institutions of countries from other regions to join it.

### SECTION 2 – COOMET OBJECTIVES

The objectives of COOMET are as follows:

1. To contribute to effectively solving the issues of ensuring the uniformity of measurements, raising the level of metrology development of the countries in the Euro-Asian region and other stakeholders; support and expansion of an integrated measurement infrastructure for the countries in the Euro-Asian region and other interested countries that makes it possible for every National Metrology Institute to promote innovation, competitiveness, trade, consumer safety, sustainability and ensuring international recognition.
2. To function as a forum for cooperation in the field of scientific and legal metrology.

### SECTION 3 – COOMET TASKS

The tasks of COOMET are as follows:

1. to perform the functions of a regional metrology organization (RMO) and regional legal metrology organization (RLMO);
2. to facilitate technical cooperation and to strengthen the links among COOMET members and metrology institutes outside COOMET and other regional and international metrology organizations;
3. to create effective mechanisms in order to:
  - achieve international recognition of national measurement standards, calibration and measurement certificates, issued by National Metrology Institutes of COOMET member countries under the CIPM MRA, as well as facilitate metrological traceability, mutual provision of metrological services and elimination of technical barriers to trade;
  - exchange information on the current status and development trends of the metrological infrastructure in member countries and mutually support their improvement;
  - carry out innovative research in metrology;
  - use modern information technology in metrology;
  - provide and coordinate knowledge and experience transfer process in scientific, legal and industrial metrology;
  - apply best practices in the field of scientific and legal metrology.

## **SECTION 4 – FIELDS OF COOPERATION WITHIN COOMET**

The fields of cooperation within COOMET include:

1. implementation of the Arrangement of the International Committee for Weights and Measures (CIPM) on Mutual Recognition of National Measurement Standards and Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA);
2. support of participation of national measurement standards of COOMET member countries in key comparisons carried out by the Consultative Committees of the CIPM, BIPM, other RMOs; regional comparisons of national measurement standards within COOMET;
3. facilitation of the establishment, operation and improvement of the quality management systems of National Metrology Institutes and their recognition for the implementation of the CIPM MRA;
4. development of calibration activities methodology and facilitation of mutual recognition of calibration results;
5. creation of reference materials of composition and properties of substances and materials within COOMET and facilitation of their use;
6. establishment of a system for gathering and dissemination of information in the field of ensuring the uniformity of measurements, and systematic exchange of the information;
7. support of countries with emerging metrology systems according to their needs;
8. joint innovative research, including research aimed at the improvement of national measurement standards and redefinition of SI units;
9. facilitation of digital transformation of activities in metrology, including introduction of digital technologies at the regional and national level;
10. implementation of training programs, traineeships, seminars, scientific conferences and competitions, inter alia for young specialists;
11. discussion of issues of general metrology, including the theory of errors and measurement uncertainty concept, International system of units, terminology, as well as elaboration of proposals on their implementation at the national level;
12. facilitation of the implementation of primary reference measurement procedures and reference measurement procedures at the national level;
13. translation into Russian of documents on metrology of international metrology organizations;
14. exchange of information on international requirements and best practices in the field of legal metrology;
15. provision of guidance on the application of the requirements of international organizations' publications regarding measuring instruments and methods for their testing, as well as other objects of legal metrology at the national level;
16. ensuring of COOMET internal development, and popularization of the activities and significance of COOMET at the national and international levels.

## **SECTION 5 – STRUCTURE OF COOMET AND WORKING PROCEDURES**

1. The COOMET body initiating and supporting cooperation is the Committee. It consists of the Heads of National Metrology Institutions of the COOMET member countries or persons appointed by them, one representative from each institution. The Committee ensures that the activity of COOMET is pursued in accordance with its objectives and contributes to accomplishing its tasks.
2. The Committee elects the President from among its members, for a period of three years, with the eligibility to be re-elected for one subsequent term of office.
3. Each Committee member accompanied by experts may take part in its meetings. Only Committee members may vote.
4. The Committee may invite observers from other international or regional organisations to take part in their meetings.
5. The Committee meets as often as required but at least once per year.
6. At the suggestion of the President, the Committee approves nominees for the positions of Vice-Presidents from among its members. The President, Vice-Presidents and Head of the COOMET Secretariat

form the Presidential Council, which develops the policy of cooperation within COOMET, interacts with international and regional metrology organisations, organises cooperation between the Committee meetings and prepares questions to be considered at these meetings.

7. A year before scheduled election of a new COOMET President the COOMET Committee nominates a candidate which after mutual approval becomes a member of the Presidential Council having a status of President Elect. After the expiry of a three year period of presidency the COOMET President keeps the status of Former President for one more year. At the end of this year the President Elect becomes an active COOMET President.

8. In case the Active COOMET President is not able to fulfil the obligations resulting from this position, the Presidential Council shall appoint among its members an Acting COOMET President until the new COOMET President has been elected according to the established order.

9. The Committee decides on its own Rules of Procedure and on those of other COOMET bodies.

10. As a rule the COOMET Secretariat is provided by the National Metrology Institute of the COOMET President.

11. The Secretariat assists the President and the Presidential Council in the management of COOMET and ensures contacts between the Committee members, as well as between the Committee, structural and working bodies of COOMET.

12. Following the decision of the COOMET Committee the following COOMET Structural Bodies are established for the purpose of initiating work in the major fields and directions of cooperation: Joint Committees, Technical committees (TC), Councils, Forums), which constitute the Organizational structure of COOMET.

The scope of objectives, tasks and working and collaboration procedures of a COOMET structural body (CSB) is specified in the relevant Regulations approved by the COOMET Committee.

The organizational structure of COOMET can include COOMET structural bodies of the 1<sup>st</sup> level (CSB-I) and of the 2<sup>nd</sup> level (CSB-II). CSB-II are subordinate to CSB-I.

Each COOMET Structural Body is headed by a Chair appointed by the COOMET Committee for a period of 4 years with the possibility to once extend the term of office for the same period.

13. Structural Bodies may establish working bodies:

- Subcommittees (SCs) in order to address the permanent tasks of collaboration;
- Working Groups (WGs) within relevant SCs/TCs in order to carry out routine work on COOMET projects, as well as appoint field coordinators.

14. Terms of reference and staff of a SC are defined by the corresponding Structural Body. The Chair of a SC is appointed by the COOMET Committee for a period of 4 years with the possibility to once extend the term of office for the same period.

15. Organizational and financial matters are managed by structural and working bodies individually taking into account the hierarchy of the COOMET bodies.

16. COOMET Presidential Council can initiate establishment of task groups (TG) within COOMET and determine their lifespans (membership of TGs is formed under COOMET projects).

17. National Metrological Institutions that are members of COOMET may invite other institutions in their countries to cooperation, at their own discretion, for working on a project.

## **SECTION 6 – LANGUAGES**

1. The languages of Committee meetings are English and/or Russian.

2. Documents of wide dissemination to be received and sent by the Secretariat and official publications of COOMET shall be edited both in English and Russian.

3. Final reports written after completion of projects, aside from COOMET publications, may be in English, French, German or Russian. The authors of the report are given the choice of a language sufficiently understood by those to whom they wish to convey their information or considerations.

4. In other cases, any language the cooperating partners consider adequate for their communication may be used.

## **SECTION 7 – RIGHTS**

In order to achieve the objectives of COOMET, each member of the Organisation will have the following rights:

- to have access, upon agreement, to national standards of other members of COOMET;
- to seek cooperation and assistance in solving metrological problems;
- to propose projects for joint work and participate in their implementation;
- to receive information on the results of activities of COOMET Bodies.

## **SECTION 8 – OBLIGATIONS**

In order to achieve the objectives of COOMET, each member of the Organisation will accept the following obligations:

- to provide the Committee, upon its request and within reasonable limits, with information on projects carried out and planned in accordance with the scope of the COOMET activities;
- to provide COOMET members with assistance and services upon mutual agreement;
- to participate in joint COOMET projects depending on its financial and technical resources, as well as its interest and competence;
- to maintain the confidentiality of any information on the results of type tests, verifications and calibrations of measuring instruments submitted by cooperating partners;
- to take into consideration the COOMET recommendations in the activity of its National Metrology Institutions and to promote the implementation of the results of COOMET projects in its country.

## **SECTION 9 – COOPERATION WITH INTERNATIONAL AND REGIONAL ORGANISATIONS**

1. COOMET will make best use of the results of work of international metrology organisations and other organizations:

- International Organisations within Metre Convention: General Conference on Weights and Measures (CGPM), International Committee for Weights and Measures (CIPM) and International Bureau of Weights and Measures (BIPM);
- International Organisation of Legal Metrology (OIML), International Committee for Legal Metrology (CML) and International Bureau of Legal Metrology (BIML);
- International Measurement Confederation (IMEKO), etc.,

as well as other organisations of interest to metrology such as ISO, IEC, CODATA, and will follow their recommendations in its activities.

2. COOMET intends to cooperate, as far as there is mutual interest, with regional metrology organisations and other organisations:

- European Association of National Metrology Institutes (EURAMET),
- European Cooperation in Legal Metrology (WELMEC),
- Asia-Pacific Metrology Programme (APMP),
- Asia-Pacific Legal Metrology Forum (APLMF),
- Euro Asian Council for Standardization, Metrology and Certification (EASC),
- Intra-African Metrology System (AFRIMETS),
- Inter-American Metrology System (SIM),
- GULF Association for Metrology (GULFMET) etc.

## **SECTION 10 – VALIDITY OF MEMORANDUM**

1. This Memorandum will come into operation on the date of its signing by at least four Signatories and remain open for further participants.

2. This Memorandum may be amended at any time by written agreement between at least three quarters of the Signatories.

3. If a member on behalf of which this Memorandum has been signed, for any reason whatever, intends to terminate its participation in COOMET, it will notify the President of the COOMET Committee of this intention not later than six months in advance.

4. This Memorandum is concluded for a term of five years. Unless within this five year period revision or termination is proposed to the COOMET Committee by at least one third of the Signatories this Memorandum of Understanding will remain in effect for another five year period.

## **SECTION 11 – LIMITATIONS**

1. Decisions of COOMET have an exclusively recommendatory nature.

2. The Secretariat's activities are financed at the expenses of the Party presiding in the COOMET Committee. On a voluntary basis, other COOMET members can render financial support to the Secretariat, the Presidential Council and other COOMET bodies for the implementation of specific tasks.

This Memorandum does not limit the rights and obligations of the COOMET members arising from other bilateral or multilateral cooperation agreements.

***Done in Warsaw on 12 June 1991 in English and Russian, updated and amended***  
*at the 10<sup>th</sup> COOMET Committee Meeting in Almaty, Kazakhstan, on 25–26 May, 2000;*  
*at the 12<sup>th</sup> COOMET Committee Meeting in Havana, Cuba, on 6–7 May, 2002;*  
*at the 15<sup>th</sup> COOMET Committee Meeting in Vilnius, Lithuania, on 8–9 September, 2005;*  
*at the 16<sup>th</sup> COOMET Committee Meeting in Braunschweig, Germany, on 4–5 September, 2006,*  
*at the 19<sup>th</sup> COOMET Committee Meeting in Baku, Azerbaijan, on 20–21 May, 2009;*  
*at the 22<sup>th</sup> COOMET Committee Meeting in Cholpon-Ata, Kyrgyzstan, on 18–19 April, 2012,*  
*according to the results of the electronic voting among COOMET Committee members (Minutes № COOMET E-01-2020),*  
*at the 33rd COOMET Committee meeting, online, on 25-27 October 2022.*

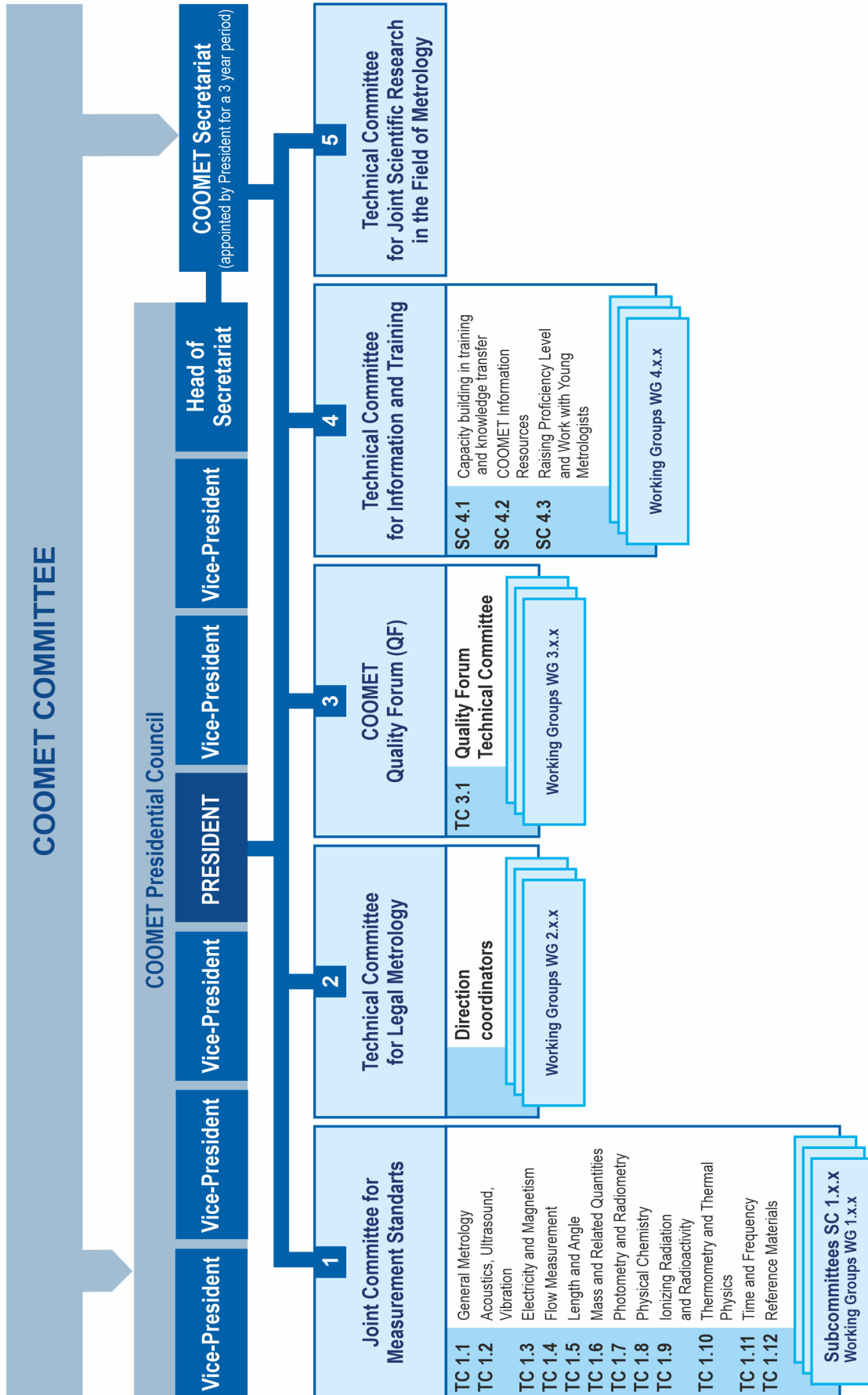


# COOMET STRUCTURE

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# COOMET STRUCTURE







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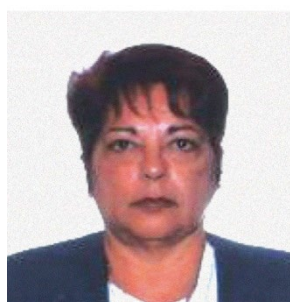
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# **RULES OF PROCEDURE**

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# DOCUMENT COOMET D2/2021

## RULES OF PROCEDURE

The Rules of Procedure presented below amend the description of the COOMET structure and activities which are part of the Memorandum of Understanding and were adopted in accordance with Article 9, Section 5 of the Memorandum and should promote the effective solution of cooperation problems in the shortest time possible according to established procedures using modern information technology and communication facilities.

### **1. COOMET MEMBERS AND COOMET COMMITTEE MEMBERS**

1.1. From each state only one national metrology institution on behalf of which the Memorandum of Understanding was signed, can be a member of COOMET.

1.2. Each COOMET member must inform COOMET President about appointment of the Committee member from its party.

1.3. The Committee shall elect its President by secret ballot by a simple majority of votes.

1.4. A COOMET member, not represented at two consecutive Committee meetings without giving a reason for the absence, shall be considered as having terminated his/her participation in COOMET.

Decision on the termination of participation of a COOMET member in COOMET is to be made by open voting based on a simple majority of votes at the next COOMET Committee meeting.

### **2. COOMET PROJECTS**

#### **2.1. GENERAL**

For each collaborative project a COOMET project form must be completed and sent to the COOMET Secretariat, which will arrange for its distribution to all Committee members and to the Chair of the relevant TC. This will enable all COOMET members to keep themselves informed of areas of possible cooperation providing them with an opportunity to offer their assistance.

Three separate forms are available<sup>1</sup>:

- PROPOSED COOMET PROJECT FORM
- AGREED COOMET PROJECT FORM
- COOMET PROJECT PROGRESS/FINAL REPORT FORM

Proposals for COOMET collaboration projects can be made at any time.

The collection of agreed COOMET projects will represent the Working Program of COOMET.

Committee members will monitor COOMET projects to ensure they are in agreement with COOMET aims and tasks and are conducted in accordance with the adopted procedures.

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<sup>1</sup> Notes for the completion of the Forms are given in Annexes 1-3 to the Document COOMET D2/2021 "COOMET Rules of Procedure" (see pages 36-42 of Directory)

COOMET cooperation can be extended to involve projects initiated by institutions from non-member countries, by the mutual consent of the interested parties. The interest in such projects shall be confirmed by the Committee member of at least one COOMET member country.

## **2.2. SUBJECT FIELDS**

The project should belong to one of the following subject fields:

- Acoustics, Ultrasound, Vibration;
- Electricity and Magnetism;
- Flow Measurement;
- Ionising Radiation and Radioactivity;
- Length and Angle;
- Mass and Related Quantities;
- Photometry and Radiometry;
- Physical Chemistry;
- Thermometry and Thermal Physics;
- Time and Frequency;
- Reference Materials;
- General Questions Concerning Measurements (General Metrology);
- Legal Metrology;
- Quality Management Systems;
- Information and Information Technology;
- Improvement of COOMET Performance.

## **2.3. PROPOSED COOMET PROJECT**

The proposer of a project shall fill in the form (Annex 1, see page 37), and send it to the COOMET Secretariat through the COOMET Committee member of his/her country. The COOMET Secretariat shall register the project and distribute the form of the proposed project to the Chair of the relevant TC (who shall inform the Chair of the SC about the project, as required), as well as to all COOMET Committee members who will inform the proposer and the COOMET Secretariat of their interest within a period of no more than three months. If COOMET Members show no interest in the fulfilment of the proposed project, it can remain in the list of proposed COOMET projects for up to one year (proposed projects, related to comparisons of measurement standards, can remain in the list of proposed COOMET projects for up to two years).

When the timeframe for keeping the project in the List of proposed COOMET projects runs out and no COOMET Committee member shows his/her interest in the proposed COOMET project, the COOMET Secretariat removes it from the List (yet the information about the project remains in the database of COOMET projects) and notifies the proposer and the Chair of the relevant TC about it.

## **2.4. AGREED COOMET PROJECT**

An agreed COOMET project form (Annex 2, see page 39) is used when agreement has already been reached by a certain number of partners to undertake a specific collaborative project.

It is only through the receipt of this form that COOMET members will be advised of the agreement of the participants of cooperation to perform works under the COOMET project.

The Working Group set up for accomplishing the project shall be composed of the persons stated in the form.

Once completed the agreed COOMET project form shall be sent by the coordinator to the Chair of the relevant SC/TC and to the COOMET Secretariat. The COOMET Secretariat sends the form to Committee members and includes the project in the COOMET Working Program and database of projects.

In performing projects on carrying out comparisons related to the implementation of the Arrangement on Mutual Recognition of National Measurement Standards and Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA), the information in Box 6 in the form of the agreed project shall in addition contain the following data: comparison type, supported CMC, piloting NMI of the comparison, registration in the KCDB (except for the pilot ones).

If there are any refinements/changes in the project title and/or members of the Working Group in the process of project implementation, the coordinator shall prepare and send an updated form of the agreed project to the Chair of the relevant SC/TC and to the COOMET Secretariat. The COOMET Secretariat shall send the updated form to Committee members and make the corresponding amendments to the COOMET Working Program and database of projects.

The coordinator of the Working Group shall inform the relevant SC/TC on progress in implementing the project.

## **2.5. COOMET PROJECT PROGRESS/FINAL REPORT**

A progress report form (Annex 3, see page 41) is used by coordinators for reporting the progress on implementing agreed COOMET projects.

A final report form must be prepared when a project has been completed (Annex 3).

In the final report form the results obtained should be presented and possible applications stated. It is desirable to indicate the advantages of undertaking the work collaboratively through COOMET.

The final report form is not deemed as a publication.

Collaborators are encouraged to publish their work through usual channels, mentioning that it was undertaken in cooperation within COOMET.

The coordinator shall send the completed final report form to the Chair of the relevant SC/TC and the COOMET Secretariat.

The COOMET Secretariat sends the form to Committee members and makes appropriate amendments to the database of COOMET projects.

## **2.6. EXCLUSION OF COOMET PROJECTS**

According to suggestions of the Chairs of TCs the COOMET Secretariat excludes the projects recognised as unpromising and irrelevant from the Working Program, however retaining the information about these projects in the database of COOMET projects.

The COOMET Secretariat sends the information about the exclusion of a project from the Working Program to Committee members.

## **3. REPORTS ON THE ACTIVITIES OF COOMET BODIES**

3.1. The coordinator of the Working Group sends the form of the project progress report to the Chair of the relevant SC/TC annually by 15 January.



The Chair of the SC/TC can request the coordinator of the Working Group to submit a report on the progress with the project one month before the meeting of the SC/TC.

3.2. The Chair of the SC prepares the Annual Report on the SC activities and forwards it to the Chair of the relevant COOMET structural body (CSB), to which the SC is subordinate, annually by 31 January.

The Chair of the CSB draws up the Annual Report on the CSB activities and forwards it to the COOMET Secretariat and to the Chair of the CSB of the 1<sup>st</sup> level (if it exists for this CSB) annually by 31 January.

3.3. Based on the reports of the SCs/TCs the Chairs of COOMET structural bodies prepare Annual Reports on the activities of the headed COOMET bodies and forward them to the COOMET Secretariat annually by 15 February and present them at COOMET meetings.

The COOMET Secretariat includes the CSBs reports in a suite of working documents of the COOMET Committee meeting.

The Chairs of CSBs arrange for publication of the Annual reports on the pages of their CSBs on the COOMET information resources.

3.4. Annual reports of COOMET Structural Bodies should have the following sections:

- general characteristic of the cooperation in the corresponding subject field including information on specific activities and/or projects being carried out and on the participants involved in cooperation, as well as challenges (e.g. related to the organization and conduct of comparisons), if any, and prospects for the development of cooperation in the subject field of cooperation, assigned to the CSB;
- results of the last meetings of the COOMET structural bodies and subordinated SCs/TCs;
- results of implementation of the COOMET Strategy and COOMET Development Program (regarding the CSB activities), as well as of the Working Program of the CSB;
- review of the projects completed and information on the use of the results obtained;
- problems of cooperation with international and regional organisations in the corresponding field of cooperation;
- activities for the implementation of international agreements (e.g., CIPM MRA, etc.);
- information on the prospective place and date for the following meetings of the COOMET structural bodies and subordinated SCs/TCs (if any);
- proposals for the resolutions of the COOMET Committee meeting.

The total volume of the report should not exceed three to five pages.

3.5. The COOMET Secretariat prepares the Annual Report on COOMET activities based on the reports submitted by the COOMET structural bodies, and distributes it to the Committee members annually by 15 March and/or includes it in a suite of working documents of the COOMET Committee meeting.

#### **4. COMMITTEE MEETINGS - CONVOCATION AND PROCEDURE**

4.1. The President will decide on the place and date of the meeting, taking into consideration the proposals formulated by the Committee members during the last meeting or received in due course.

For valid reasons a COOMET Committee meeting may be held online, provided that voting by Committee members on the items of the agenda and simultaneous interpretation during the meeting are arranged.

4.2. If a Committee member cannot take part in a meeting, he/she can send an official representative to the meeting, transferring him the right to vote. The Committee member shall send a written confirmation of the official representative's authority addressed to the President before the Committee meeting.

4.3. A Committee meeting can be divided in two sessions, if necessary: a working session only for Committee members or their official representatives and a plenary session, open to other participants.

4.4. A Committee meeting shall be convened in writing by email. The President shall notify Committee members about the dates of the meeting at least ten weeks in advance and also send the preliminary draft agenda with the request to inform the President about any additions or refinements to the draft within a three week period.

4.5. The final draft agenda shall be sent to Committee members at least four weeks in advance of the meeting.

4.6. The agenda shall be approved by the Committee at the beginning of the meeting.

4.7. A quorum will be constituted by more than half of the Committee Members.

4.8. The Committee will attempt to reach agreed decisions whenever possible by consensus amongst all COOMET Committee members or their official representatives present at the meeting; meanwhile consensus is understood to be "general agreement of COOMET Committee members or their official representatives, present at the meeting when the decision is made".

If consensus cannot be reached, decisions shall be made based on the results of voting – by a simple majority of valid votes cast; meanwhile different points of view shall be recorded in the Minutes. Abstentions are regarded as invalid votes, not as votes cast. In the event of equality of votes, the President shall have the casting vote.

4.9. The resolutions of each Committee meeting shall be included in the Minutes of the meeting. Draft Minutes shall be circulated by the COOMET Secretariat to all Committee Members within 2 months of the meeting. In order to speed up the realisation of the resolutions adopted at the Committee meeting, it is recommended to the COOMET Secretariat to prepare draft resolutions of the meeting at the end of the meeting or within two weeks after the meeting.

The approval of the Minutes of the corresponding Committee meeting is performed by Committee members by e-mail during 1 month after their receipt from the COOMET Secretariat. If no written objections are received from Committee members within a month, the Minutes are regarded as approved and final. The Minutes shall be signed by the President and Head of the COOMET Secretariat.

4.10. The President shall convene extraordinary Committee meetings if this is in the interest of the organization or if one fifth of the Committee members collectively demand such meetings in writing stating the purpose and the reasons.

4.11. Between the meetings the Committee can discuss any questions by correspondence involving all Committee members as well as solve problems of cooperation through the Presidential Council, the meetings of which are convened by the President as required, but not less than once a year between the COOMET Committee meetings.

4.12. In justified cases e-voting on important issues related to the activities of the organization can be held among Committee members between Committee meetings based on the decision of the Presidential Council.

To hold e-voting the COOMET Secretariat shall prepare a voting Ballot with the list of questions and answer options, which is sent to Committee members by email or posted on the COOMET information resources with the appropriate notification to Committee members.

The timeframe for voting is set by the President.

The COOMET Secretariat must provide a written confirmation of the receipt of the completed voting ballot to the COOMET member.

The answer having a simple majority of valid votes cast is taken as the result of voting for each question of the ballot. Abstentions are regarded as invalid votes. If a Committee member votes negatively on the issue put to a vote, the reason for such a decision shall be stated.

The results of the e-voting shall be presented by the COOMET Secretariat in the form of a Record (Summary voting record shall be given as a mandatory annex to the Record) and treated as Committee's resolutions.

The Record based on the results of the e-voting shall be prepared and sent to Committee members within no longer than 14 calendar days of the date when the voting was completed.

4.13. Similar rules may be followed by all structural and working bodies of COOMET. The rules, governing the work of CSBs and working bodies subordinate to them, shall be given in the Regulations on CSBs.

## **5. AMENDMENTS TO THE RULES OF PROCEDURE**

These Rules of Procedure can be amended only by the consent of at least half of the Committee members.

***The Rules of Procedure were agreed during the first COOMET Committee Meeting, in Warsaw, on 12 June 1991, in English and Russian, updated and amended:***

*at the 10<sup>th</sup> COOMET Committee Meeting in Almaty, Kazakhstan, on 25–26 May, 2000;*

*at the 12<sup>th</sup> COOMET Committee Meeting in Havana, Cuba, on 6–7 May, 2002;*

*at the 15<sup>th</sup> COOMET Committee Meeting in Vilnius, Lithuania, on 8–9 September, 2005,*

*at the 16<sup>th</sup> COOMET Committee Meeting in Braunschweig, Germany, on 4–5 September, 2006,*

*at the 18<sup>th</sup> COOMET Committee Meeting in Kharkov, Ukraine, on 15–16 May, 2008,*

*at the 19<sup>th</sup> COOMET Committee Meeting in Baku, Azerbaijan, on 20–21 May, 2009,*

*at the 20<sup>th</sup> COOMET Committee Meeting in Astana, Kazakhstan, on 21–22 April, 2010,*

*at the 23<sup>th</sup> COOMET Committee Meeting in Nizhny Novgorod, Russia, on 5–6 June, 2013,*

*at the 31<sup>st</sup> COOMET Committee meeting (15–17 June 2021, online).*



## **COOMET PROJECTS (NOTES FOR THE COMPLETION OF FORMS)**

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# PROPOSED COOMET PROJECT

Annexes 1 to the Document COOMET D2/2021 "COOMET Rules of Procedure"

PROPOSED PROJECT COOMET		
1 Reference No.:		2 Subject Field:
3 Field of cooperation:		
4 Partners:		
5 Subject:		
6 Description:		
7 Additional remarks:		
8 Proposer's Name: Address: Telephone: Fax: Email:		
9 Proposer's signature:	10 Date:	11 Proposed starting date:
12 Signature of the COOMET Committee Member: Name: Signature:		

## PROPOSED COOMET PROJECT

### **Box 1** Reference No.

It will be given by the COOMET Secretariat.

The proposed project number format: XXX/YY/ZZ

where XXX stands for the sequence number of the project, YY stands for the country code, ZZ stands for the two last digits of the year

### **Box 2** Subject Field

The subject field should be chosen from the list in item 2.2 of the Rules of Procedure.

### **Box 3** Field of cooperation

The field of cooperation should conform to one of the following

- comparisons;
- research;
- advice and training;
- traceability and calibration.

### **Box 4** Partners

Members of COOMET, who have already expressed their willingness to participate in the proposed cooperation, should be indicated by their initials. If specific institutions are involved, they should be indicated by full names together with the letters signifying their country

### **Box 5** Subject

The specific subject of the proposed cooperation should be defined in not more than 60 characters (including spaces).

### **Box 6** Description

Within the space provided a brief description of the proposed project should be given. Sufficient details should be provided for experts from other institutions so that they can assess their capabilities to join cooperation.

### **Box 7** Additional remarks

This box provides an opportunity for adding any additional remarks relevant to the proposed collaborative project, e.g. previous cooperation, advantages of implementation, etc.

### **Box 8** Proposer's name

The name, full postal address, telephone and fax numbers and e-mail of the person proposing the cooperation should be given, as well as the name of the institution.

### **Box 10** Date

The Form should be dated the day of signature.

### **Box 11** Proposed starting date

A proposed starting date should be given.



# AGREED COOMET PROJECT

Annexes 2 to the Document COOMET D2/2021 "COOMET Rules of Procedure"

<b>AGREED PROJECT COOMET</b>		
<b>1 Reference No.:</b>		<b>2 Subject Field:</b>
<b>3 Field of cooperation:</b>		
<b>4 Working Group:</b>		
<b>5 Subject:</b>		
<b>6 Description:</b>		
<b>7 Additional remarks:</b>		
<b>8 Coordinator's name:</b> <b>Address:</b> <b>Telephone:</b> <b>Fax:</b> <b>Email:</b>		
<b>9 Date project agreed:</b>	<b>10 Starting date:</b>	<b>11 Expected completion date:</b>
<b>12 Coordinator's signature:</b>		<b>13 Date:</b>

## AGREED COOMET PROJECT

### **Box 1** Reference number

The letter "a" is added to the designation of an agreed project.

The agreed project number format: XXX/YY-a/ZZ

where XXX stands for the sequence number of the project, YY stands for the country code, ZZ stands for the two last digits of the year.

If a representative of the country, different from the country, which proposed the project, is appointed as the coordinator of the Working Group, the code in the number of the agreed project, designating the country, will be changed.

**Boxes 2, 3 and 5, 6, 7** of the agreed COOMET project form should be complete the same way as the corresponding boxes in the proposed COOMET project form.

### **Box 4** Working Group

Names of experts forming the Working Group and names (or abbreviated names) of their institutions, as well as letters signifying their countries should be given.

### **Box 8** Coordinator's name, address, etc.

The name, address, telephone and fax numbers and e-mail of the person nominated by the Working Group as its Coordinator should be indicated, as well as the name of the institution.

### **Box 9** Date project agreed                      Ref. No.

Date on which an agreement was reached and the Reference No. of the proposed COOMET Project should be given.

### **Box 10** Starting date

The date it has been agreed to start the project.

### **Box 11** Expected completion date

An expected completion date must be given. For ongoing cooperation "ON-GOING" should be entered.

### **Box 13** Date

The form should be dated the day of signature.

## FOR PROJECTS RELATED WITH COMPARISONS

### **Box 6** Description

A short description of the comparison with compulsory indication of the type of comparison, calibration and measurement capabilities (CMC) supported by the comparisons, as well as the piloting NMI of the comparisons and registration in the KCDB (except for the pilot ones) should be given in this box.





# COOMET PROJECT PROGRESS/FINAL REPORT

Annexes 3 to the Document COOMET D2/2021 "COOMET Rules of Procedure"

COOMET PROJECT PROGRESS/FINAL REPORT	
1 Reference No.:	2 Subject Field:
3 Field of cooperation:	
4 Working Group:	
5 Subject:	
6 Progress:	
7 Coordinator's name: Address: Telephone: Fax: Email:	
8 Completion date:	
9 Coordinator's signature:	10 Date:

## COOMET PROJECT PROGRESS/FINAL REPORT

### **Boxes 1-5**

The content of the corresponding Boxes in the agreed COOMET project form should be reproduced.

### **Box 6** Progress

A brief description of the progress up to date should be entered in the space provided.

**Box 7** The content of the corresponding box in the agreed COOMET project form should be reproduced (if necessary, contact details can be updated)

### **Box 8** Completion date

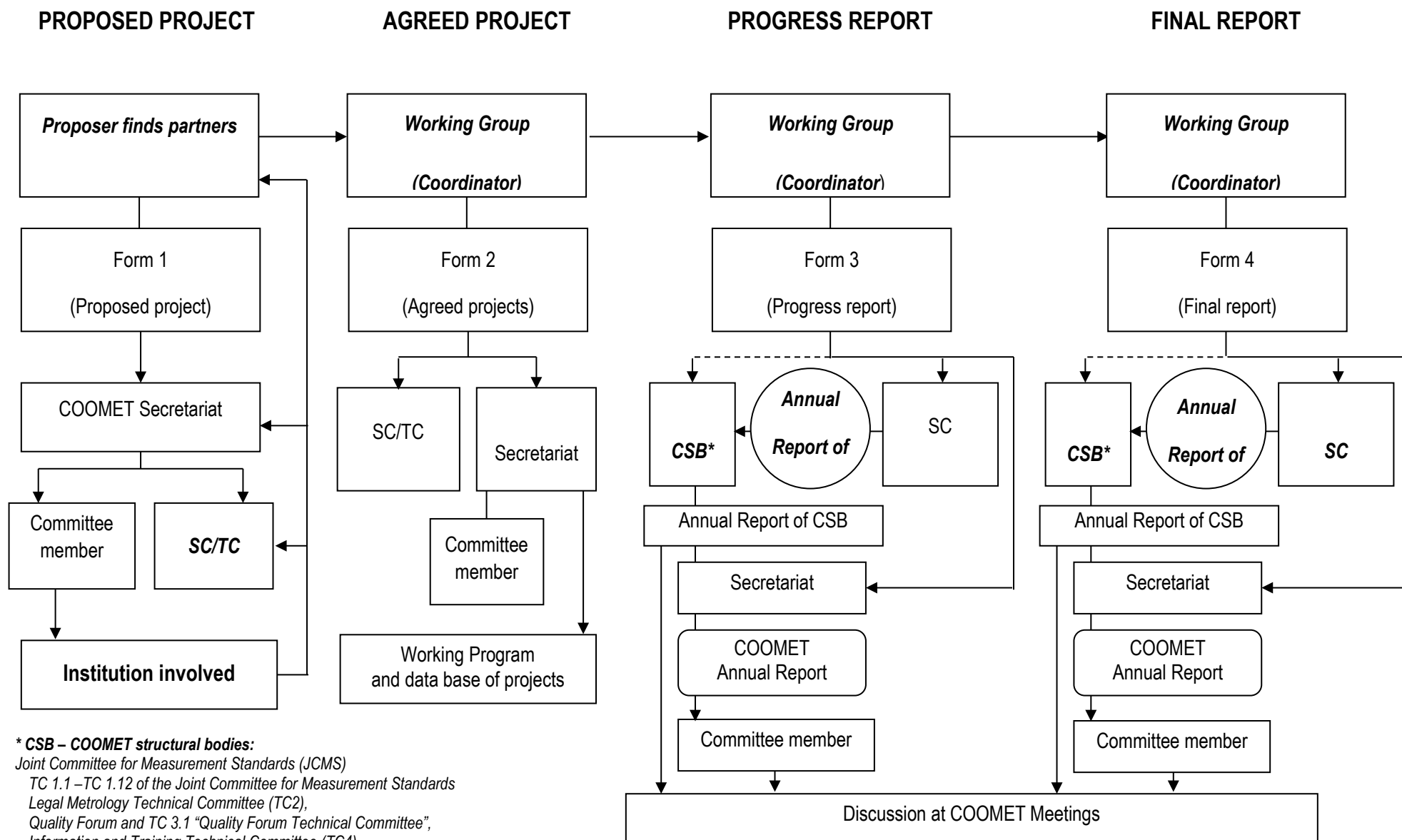
For a progress report (aimed at describing the status of works) an estimated completion date should be given.  
For ongoing cooperation "ON-GOING" should be entered in progress report forms.  
If the project comes to a close, a specific completion date should be given.

### **Box 10** Date


The Form should be dated the day of signature.



# ORGANIZATIONAL SCHEME OF COOMET PROJECTS



A connection depicted by a dotted line should be followed when there are no SCs in a TC



## **REPRESENTATIVES OF MEMBER COUNTRIES IN THE COOMET STRUCTURAL BODIES**

**(COOMET structural bodies members)**

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# STRUCTURAL BODIES MEMBERS

## ARMENIA

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## **ADDRESS OF ORGANIZATION**

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TC 1.2 "Acoustics, Ultrasound, Vibration"	AUV	Mr. Rasim Bayramov	+994 12 514 96 05/127 <a href="mailto:rasim.bayramov@metrology.gov.az">rasim.bayramov@metrology.gov.az</a>	1
TC 1.3 "Electricity and Magnetism"	EM	Mr. Maarif Zeynalov	+994 12 514 96 05/127 <a href="mailto:maarif.zeynalov@metrology.gov.az">maarif.zeynalov@metrology.gov.az</a>	1
TC 1.4 "Flow Measurement"	F	Mr. Elnur Bayramov	+994 12 514 96 05/124 <a href="mailto:elnur.bayramov@metrology.gov.az">elnur.bayramov@metrology.gov.az</a>	
TC 1.5 "Length and Angle"	L	Ms. Tamilla Shabiyeva	+994 12 514 96 05/136 <a href="mailto:tamilla.shebiyeva@metrology.gov.az">tamilla.shebiyeva@metrology.gov.az</a>	1
TC 1.6 "Mass and Related Quantities"	M	Ms. Tamilla Shabiyeva	+994 12 514 96 05/136 <a href="mailto:tamilla.shebiyeva@metrology.gov.az">tamilla.shebiyeva@metrology.gov.az</a>	1
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TC 1.8 "Physical Chemistry"	QM	Ms. Ema Nabiyeva	+994 12 514 96 05/133 <a href="mailto:ema.nebiyeva@metrology.gov.az">ema.nebiyeva@metrology.gov.az</a>	1
TC 1.9 "Ionising Radiation and Radioactivity"	RI	Ms. Shahla Musayeva	+994 12 514 96 05/140 <a href="mailto:shahla.musayeva@metrology.gov.az">shahla.musayeva@metrology.gov.az</a>	1
TC 1.10 "Thermometry and Thermal Physics"	T	Ms. Mehriban Shirinova	+994 12 514 96 05/130 <a href="mailto:mehriban.shirinova@metrology.gov.az">mehriban.shirinova@metrology.gov.az</a>	1
TC 1.11 "Time and Frequency"	TF	Mr. Shamkhal Abbasov	+994 12 514 96 05/188 <a href="mailto:shamkhal.abbasov@metrology.gov.az">shamkhal.abbasov@metrology.gov.az</a>	1
TC 1.12 "Reference Materials"	RM	Ms. Konul Guliyeva	+994 12 514 96 05/133 <a href="mailto:konul.guliyeva@metrology.gov.az">konul.guliyeva@metrology.gov.az</a>	1
TC 2 "Legal Metrology"	LM	Ms. Shirin Mammadava	+994 12 514 96 05/107 <a href="mailto:shirin.memmedova@metrology.gov.az">shirin.memmedova@metrology.gov.az</a>	1
Quality Forum QF member from the country (with voting rights)	AQ	Mr. Azer Gurbanov	+994 12 514 96 05/107 <a href="mailto:azer.gurbanov@metrology.gov.az">azer.gurbanov@metrology.gov.az</a>	1
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#### 1. Legal entity of public law "Azerbaijan Institute of Metrology" (AzMi)

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# STRUCTURAL BODIES MEMBERS

## BOSNIA and HERZEGOVINA

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<b>TC 1.2</b> "Acoustics, Ultrasound, Vibration"	<b>AUV</b>		
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<b>TC 1.9</b> "Ionising Radiation and Radioactivity"	<b>RI</b> <b>Ms. Vedrana Makarić</b>	+387 51 307 470 <a href="mailto:vedrana.makaric@met.gov.ba">vedrana.makaric@met.gov.ba</a>	1
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# STRUCTURAL BODIES MEMBERS

## SLOVAKIA

Structural body & subject field		Contact person	Phone, Email	Address
<b>TC 1.1</b> "General Metrology"	GM	Mr. Roman Fira	+421 2 602 94 232 <a href="mailto:fira@smu.gov.sk">fira@smu.gov.sk</a>	1
<b>TC 1.2</b> "Acoustics, Ultrasound, Vibration"	AUV			
<b>TC 1.3</b> "Electricity and Magnetism"	EM	Mr. Juraj Dressler	+421 2 602 94 243 <a href="mailto:dressler@smu.gov.sk">dressler@smu.gov.sk</a>	1
<b>TC 1.4</b> "Flow Measurement"	F	Mr. Stefan Makovnik	+421 2 602 94 337 <a href="mailto:makovnik@smu.gov.sk">makovnik@smu.gov.sk</a>	1
<b>TC 1.5</b> "Length and Angle"	L	Mr. Roman Fira	+421 2 602 94 232 <a href="mailto:fira@smu.gov.sk">fira@smu.gov.sk</a>	1
<b>TC 1.6</b> "Mass and Related Quantities"	M	Mr. Laurenc Snopko	+421 2 602 94 218 <a href="mailto:snopko@smu.gov.sk">snopko@smu.gov.sk</a>	1
<b>TC 1.7</b> "Photometry and Radiometry"	PR	Mr. Marian Krempasky	+421 2 602 94 432 <a href="mailto:krempasky@smu.gov.sk">krempasky@smu.gov.sk</a>	1
<b>TC 1.8</b> "Physical Chemistry"	QM	Mrs. Miroslava Valkova	+421 2 602 94 211 <a href="mailto:valkova@smu.gov.sk">valkova@smu.gov.sk</a>	1
<b>TC 1.9</b> "Ionising Radiation and Radioactivity"	RI	Mr. Matej Krivosik	+421 2 602 94 208 <a href="mailto:krivosik@smu.gov.sk">krivosik@smu.gov.sk</a>	1
<b>TC 1.10</b> "Thermometry and Thermal Physics"	T	Dipl.Ing. Peter Pavlasek	+421 948 495 747 <a href="mailto:pavlasek@smu.gov.sk">pavlasek@smu.gov.sk</a>	1
<b>TC 1.11</b> "Time and Frequency"	TF	Mr. Juraj Sluciak	+421 2 602 94 382 <a href="mailto:sluciak@smu.gov.sk">sluciak@smu.gov.sk</a>	1
<b>TC 1.12</b> "Reference Materials"	RM	Mrs. Zuzana Durisova	+421 2 602 94 191 <a href="mailto:durisova@smu.gov.sk">durisova@smu.gov.sk</a>	1
<b>TC 2</b> "Legal Metrology"	LM	Mr. Emanuel Godal	+421 2 602 94 380 <a href="mailto:godal@smu.gov.sk">godal@smu.gov.sk</a>	1
<b>Quality Forum</b> QF member from the country (with voting rights)	AQ	Mr. Emanuel Godal	+421 2 602 94 380 <a href="mailto:godal@smu.gov.sk">godal@smu.gov.sk</a>	1
<b>TC 3.1</b> "Quality Forum Technical Committee"	AQ	Mr. Emanuel Godal	+421 2 602 94 380 <a href="mailto:godal@smu.gov.sk">godal@smu.gov.sk</a>	1
<b>TC 4</b> "Information and Training"	IT TR			
<b>TC 5</b> "Innovative Research in Metrology"		Dipl.Ing. Peter Pavlasek	+421 948 495 747 <a href="mailto:pavlasek@smu.gov.sk">pavlasek@smu.gov.sk</a>	1

### ADDRESS OF ORGANIZATION

#### 1. Slovak Institute of Metrology (SMU)

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Website: [www.smu.sk](http://www.smu.sk)



# STRUCTURAL BODIES MEMBERS

## TAJIKISTAN

Structural body & subject field		Contact person	Phone, Email	Address
TC 1.1 "General Metrology"	GM	Mr. Jurakhon Rakhimzoda	+992 37 233 68 86 +992 90 778 76 84 <a href="mailto:jurahon_st@mail.ru">jurahon_st@mail.ru</a>	1
TC 1.2 "Acoustics, Ultrasound, Vibration"	AUV	Mr. Isfandior Kayumov	+922 93 333 06 16 <a href="mailto:Isfandiyor_kayumov@mail.ru">Isfandiyor_kayumov@mail.ru</a>	1
TC 1.3 "Electricity and Magnetism"	EM	Mr. Jurabek Ismatov	+992 93 333 06 44 <a href="mailto:ismatov.j92@mail.ru">ismatov.j92@mail.ru</a>	1
TC 1.4 "Flow Measurement"	F	Mr. Bakhtiyor Ashurov	+992 918 75 64 79 <a href="mailto:ashurov.73@yandex.ru">ashurov.73@yandex.ru</a>	1
TC 1.5 "Length and Angle"	L	Mr. Abdudzhallol Nasriddinov	+992 91 943 42 52 <a href="mailto:info@standard.tj">info@standard.tj</a>	
TC 1.6 "Mass and Related Quantities"	M	Mr. Karomat Ubaydullov	+992 93 774 60 09 <a href="mailto:karom92-92@mail.ru">karom92-92@mail.ru</a>	1
TC 1.7 "Photometry and Radiometry"	PR	Mr. Bakhtiyor Ashurov	+992 918 75 64 79 <a href="mailto:ashurov.73@yandex.ru">ashurov.73@yandex.ru</a>	1
TC 1.8 "Physical Chemistry"	QM	Mrs. Asliniso Alimshoyeva	+992 900 96 25 52 <a href="mailto:alimshoyeva72@list.ru">alimshoyeva72@list.ru</a>	1
TC 1.9 "Ionising Radiation and Radioactivity"	RI	Mr. Bakhtiyor Barotov	+992 93 776 66 36 <a href="mailto:b.barotov@cbrn.tj">b.barotov@cbrn.tj</a>	1
TC 1.10 "Thermometry and Thermal Physics"	T	Mrs. Musalama Khudoieva	+992 77 700 74 75 <a href="mailto:mkhudoieva@inbox.ru">mkhudoieva@inbox.ru</a>	1
TC 1.11 "Time and Frequency"	TF	Mr. Isfandior Kayumov	+922 93 333 06 16 <a href="mailto:Isfandiyor_kayumov@mail.ru">Isfandiyor_kayumov@mail.ru</a>	1
TC 1.12 "Reference Materials"	RM	Mr. Manuchehr Karimov	+992 93 333 06 16 <a href="mailto:manuchehr.karimov.1987@mail.ru">manuchehr.karimov.1987@mail.ru</a>	1
TC 2 "Legal Metrology"	LM	Mr. Ramazon Samadov	+992 93 538 55 55 <a href="mailto:saidzodars@gmail.com">saidzodars@gmail.com</a>	1
Quality Forum QF member from the country (with voting rights)	AQ	Mr. Tolib Shokirjonov	+992 37 233 33 60 +992 93 503 69 23 <a href="mailto:tt-st@mail.ru">tt-st@mail.ru</a>	1
TC 3.1 "Quality Forum Technical Committee"	AQ	Mr. Tolib Shokirjonov	+992 37 233 33 60 +992 93 503 69 23 <a href="mailto:tt-st@mail.ru">tt-st@mail.ru</a>	1
TC 4 "Information and Training"	IT TR	Mr. Jurakhon Rakhimzoda	+992 37 233 68 86 +992 90 778 76 84 <a href="mailto:jurahon_st@mail.ru">jurahon_st@mail.ru</a>	1
TC 5 "Innovative Research in Metrology"		Mr. Ulugbek Ahmedov	+992 93 533 08 38 <a href="mailto:Arda_online@mail.ru">Arda_online@mail.ru</a>	1

### ADDRESS OF ORGANIZATION

#### 1. TAJIKSTANDARD

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Email: [info@standard.tj](mailto:info@standard.tj)

Website: [www.standard.tj](http://www.standard.tj)



# STRUCTURAL BODIES MEMBERS

## TURKEY

Structural body & subject field	Contact person	Phone, Email	Address
<b>TC 1.1</b> "General Metrology"	<b>GM</b>		
<b>TC 1.2</b> "Acoustics, Ultrasound, Vibration"	<b>AUV</b> <b>Dr. Enver Sadıkoğlu</b>	+90 262 679 5000 add. 2044 or 3101 <a href="mailto:enver.sadikoglu@tubitak.gov.tr">enver.sadikoglu@tubitak.gov.tr</a>	1
<b>TC 1.3</b> "Electricity and Magnetism"	<b>EM</b> <b>Mr. Mehedin Arifovic</b>	+90 262 679 5000 add. 4200 <a href="mailto:mehedin.arifovic@tubitak.gov.tr">mehedin.arifovic@tubitak.gov.tr</a>	1
<b>TC 1.4</b> "Flow Measurement"	<b>F</b>		
<b>TC 1.5</b> "Length and Angle"	<b>L</b> <b>Dr. Damla Şendoğlu</b>	+90 262 679 5000 add. 3505 <a href="mailto:damla.sendogdu@tubitak.gov.tr">damla.sendogdu@tubitak.gov.tr</a>	1
<b>TC 1.6</b> "Mass and Related Quantities"	<b>M</b> <b>Dr. Gökçe Sevim Sariyerli</b>	+90 262 679 50 00 ext. 5403 <a href="mailto:gokce.sariyerli@tubitak.gov.tr">gokce.sariyerli@tubitak.gov.tr</a>	1
<b>TC 1.7</b> "Photometry and Radiometry"	<b>PR</b> <b>Dr. Özcan Bazkır</b>	+90 262 679 5000 add. 3300 <a href="mailto:ozcan.bazkir@tubitak.gov.tr">ozcan.bazkir@tubitak.gov.tr</a>	1
<b>TC 1.8</b> "Physical Chemistry"	<b>QM</b>		
<b>TC 1.9</b> "Ionising Radiation and Radioactivity"	<b>RI</b>		
<b>TC 1.10</b> "Thermometry and Thermal Physics"	<b>T</b> <b>Dr. Hümbet Nasibli</b>	+90 262 679 50 00 add. 3412 or 3457 <a href="mailto:humbet.nasibli@tubitak.gov.tr">humbet.nasibli@tubitak.gov.tr</a>	1
<b>TC 1.11</b> "Time and Frequency"	<b>TF</b> <b>Assoc.Prof. Dr. Ramiz Hamid</b>	+90 262 679 5000 add. 2020 <a href="mailto:ramiz.hamid@tubitak.gov.tr">ramiz.hamid@tubitak.gov.tr</a>	1
<b>TC 1.12</b> "Reference Materials"	<b>RM</b> <b>Dr. Alper İşleyen</b>	+90 262 679 50 00 ext. 6209 <a href="mailto:alper.isleyen@tubitak.gov.tr">alper.isleyen@tubitak.gov.tr</a>	1
<b>TC 2</b> "Legal Metrology"	<b>LM</b>		
<b>Quality Forum</b> QF member from the country (with voting rights)	<b>AQ</b> <b>Dr. Enver Sadıkoğlu</b>	+90 262 679 5000 add. 2044 or 3101 <a href="mailto:enver.sadikoglu@tubitak.gov.tr">enver.sadikoglu@tubitak.gov.tr</a>	1
<b>TC 3.1</b> "Quality Forum Technical Committee"	<b>AQ</b> <b>Dr. Enver Sadıkoğlu</b>	+90 262 679 5000 add. 2044 or 3101 <a href="mailto:enver.sadikoglu@tubitak.gov.tr">enver.sadikoglu@tubitak.gov.tr</a>	1
<b>TC 4</b> "Information and Training"	<b>IT</b> <b>TR</b>		
<b>TC 5</b> "Innovative Research in Metrology"	<b>Assoc.Prof. Dr. Ramiz Hamid</b>	+90 262 679 50 00 (2020) <a href="mailto:ramiz.hamid@tubitak.gov.tr">ramiz.hamid@tubitak.gov.tr</a>	1

### ADDRESSES OF ORGANIZATIONS

#### 1. TÜBİTAK Ulusal Metroloji Enstitüsü (TÜBİTAK UME)

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# STRUCTURAL BODIES MEMBERS

## UZBEKISTAN

Structural body & subject field		Contact person	Phone, Email	Address
<b>TC 1.1</b> "General Metrology"	GM	Mr. Marat Yunusov	+998 71 2020011 (1214) <a href="mailto:marat@nim.uz">marat@nim.uz</a>	1
<b>TC 1.2</b> "Acoustics, Ultrasound, Vibration"	AUV	Mrs. Lyubov Gazieva	+998 78 1502605 <a href="mailto:l.gazieva@nim.uz">l.gazieva@nim.uz</a>	1
<b>TC 1.3</b> "Electricity and Magnetism"	EM	Mr. Djalalkhan Arifkhanov	+998 78 1506507 <a href="mailto:d.arifkhanov@nim.uz">d.arifkhanov@nim.uz</a>	1
<b>TC 1.4</b> "Flow Measurement"	F	Mr. Nuriddin Raymjonov	+998 71 2020011 (1201) <a href="mailto:raymjonov@nim.uz">raymjonov@nim.uz</a>	1
<b>TC 1.5</b> "Length and Angle"	L	Mrs. Nozimakhon Yunusova	+998 78 1502606 <a href="mailto:nozima_yunusova@nim.uz">nozima_yunusova@nim.uz</a>	1
<b>TC 1.6</b> "Mass and Related Quantities"	M	Mr. Javokhirjon Nosirov	+998 78 1502614 <a href="mailto:j.nosirov@nim.uz">j.nosirov@nim.uz</a>	1
<b>TC 1.7</b> "Photometry and Radiometry"	PR	Mr. Kamoliddin Najmutdinov	+998 71 2020011 (1209) <a href="mailto:otdel-09@nim.uz">otdel-09@nim.uz</a>	1
<b>TC 1.8</b> "Physical Chemistry"	QM	Mr. Jamol Rustamov	+998 78 1506509 <a href="mailto:rustamov@nim.uz">rustamov@nim.uz</a>	1
<b>TC 1.9</b> "Ionising Radiation and Radioactivity"	RI	Mr. Sheroz Ismatullaev	+998 71 2020011 (1205) <a href="mailto:sh.ismatullaev@nim.uz">sh.ismatullaev@nim.uz</a>	1
<b>TC 1.10</b> "Thermometry and Thermal Physics"	T	Mr. Bekhruz Yusupov	+998 78 1502614 <a href="mailto:bekhruz@nim.uz">bekhruz@nim.uz</a>	1
<b>TC 1.11</b> "Time and Frequency"	TF	Mrs. Lyubov Gazieva	+998 78 1502605 <a href="mailto:l.gazieva@nim.uz">l.gazieva@nim.uz</a>	1
<b>TC 1.12</b> "Reference Materials"	RM	Mr. Nuriddin Raymjonov	+998 71 2020011 (1201) <a href="mailto:raymjonov@nim.uz">raymjonov@nim.uz</a>	1
<b>TC 2</b> "Legal Metrology"	LM	Mr. Marat Yunusov	+998 71 2020011 (1214) <a href="mailto:marat@nim.uz">marat@nim.uz</a>	1
<b>Quality Forum</b> QF member from the country (with voting rights)	AQ	Mr. Marat Yunusov	+998 71 2020011 (1214) <a href="mailto:marat@nim.uz">marat@nim.uz</a>	1
<b>TC 3.1</b> "Quality Forum Technical Committee"	AQ	Mr. Marat Yunusov	+998 71 2020011 (1214) <a href="mailto:marat@nim.uz">marat@nim.uz</a>	1
<b>TC 4</b> "Information and Training"	IT TR	Mr. Marat Yunusov	+998 71 2020011 (1214) <a href="mailto:marat@nim.uz">marat@nim.uz</a>	1
<b>TC 5</b> "Innovative Research in Metrology"		Mr. Mamurzhon Mavlyanov	+998 71 2020011 (1270) <a href="mailto:m.mavlyanov@nim.uz">m.mavlyanov@nim.uz</a>	1

### ADDRESS OF ORGANIZATION

#### 1. Uzbek National Institute of Metrology (UzNIM)

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Email: [info@nim.uz](mailto:info@nim.uz)

Website: [www.nim.uz](http://www.nim.uz)



## **INFORMATION ON THE ORGANIZATION OF METROLOGICAL ACTIVITIES OF COOMET MEMBER COUNTRIES**



# ARMENIA

<b>COOMET MoU year of signing:</b>	24 April 2007
<b>Area:</b>	29,740 km <sup>2</sup>
<b>Population:</b>	2.965 million

## 1. Law on metrology

Law of the Republic of Armenia of February 8, 2012 No. HO-22-N "Ensuring the Uniformity of Measurement".

## 2. Metrological infrastructure

The state management for ensuring the uniformity of measurements in the fields of legal metrology is implemented by the authorized body of metrology - **the Ministry of Economy of the Republic of Armenia**.

### The Ministry of Economy of the Republic of Armenia

**Minister of Economy: Mr. Vahan Qerobyan**

**Address:** 5 M. Mkrtchyan str., 0010 Yerevan, Republic of Armenia  
**Phone:** +374 011 59 71 10  
**Web:** <http://www.mineconomy.am>  
**Email:** [secretariat@mineconomy.am](mailto:secretariat@mineconomy.am)

### Main areas of activity:

- implementation of state policy development and coordination in the field of legal metrology;
- coordination of activities of the National Metrology Body;
- representation of the Republic of Armenia in international organizations;
- definition of the certificate form of measuring instrument type approval and the image of type approval mark;
- definition of the procedure for maintaining the type approval register;
- definition of the original image of the verification mark of measuring instrument;
- conducting administrative proceedings in the field of legal metrology;
- implementation of state control in the field of legal metrology;
- adoption and implementation of guidelines of the International Organization on Legal Metrology.

**"National Body for Standardization and Metrology" CJSC**, designated by the Government of the Republic of Armenia as a National Body of Metrology, implements the state policy in the field of metrology within its competence.

**Acting Director: Dr. Albert Babayan**

**Address:** 49/4 Komitas ave., 0051 Yerevan, Republic of Armenia  
**Phone:** +374 10 23 26 00  
**Email:** [info@armstandard.am](mailto:info@armstandard.am)  
**Web:** <http://www.armstandard.am>

## **Main areas of activity in metrology:**

- creation, maintenance, improvement of national standards of units;
- ensuring comparability of national standards with the standards of the national institutes of metrology of other countries;
- membership of international and regional organizations within its competence;
- definition of standard sample certification procedure and implementation of standard sample certification;
- examining the metrological characteristics of the measuring instruments in operation;
- implementation of calibration work to ensure traceability;
- implementation of metrological certification of measurement methods in the field of legal metrology;
- type-approval of measuring instruments, definition of validity of type-approval certificate of measuring instrument;
- maintenance of the register of approved measuring instruments and standard samples;
- participation in accreditation activities of legal entities and individual entrepreneurs carrying out calibration of measuring instruments;
- carrying out verification of measuring instruments;
- in the area of ensuring the uniformity of measurements organization and implementation of training, specialization, training of personnel in the field of legal metrology, as well as training and accreditation of the personnel of calibration and testing laboratories in the above-mentioned field, and the provision of relevant certificates;
- implementation of metrological expertise of the draft technical regulations provided by the legal acts adopted in accordance with the international treaties of the Republic of Armenia ratified by the legislation of the Republic of Armenia.

## **3. National measurement standards**

<https://www.armstandard.am/page/140>

## **4. Status of participation in Metre Convention**

"National Body for Standardization and Metrology" CJSC is not a CIPM MRA signatory or a CGPM associate member.

## **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

-

## **6. State CMC data**

-

## **7. OIML membership status**

-





# AZERBAIJAN

<b>COOMET MoU year of signing:</b>	24 April 2007
<b>Area:</b>	86,600 km <sup>2</sup>
<b>Population:</b>	10.156 million

## 1. Law on metrology

Law of the Republic of Azerbaijan "About ensuring unity of measurements " of June 13, 2013 No. 686-IVQ.

## 2. Metrological infrastructure

The formation state policy in the field of metrology in the Republic of Azerbaijan is carried out State Service for Antimonopoly and Consumer Market Control under the Ministry of Economy of the Republic of Azerbaijan ([www.competition.gov.az](http://www.competition.gov.az)).

**The Legal entity of public law "Azerbaijan Institute of Metrology" (AzMi)** established in accordance with the Decree of the President of the Republic of Azerbaijan of February 10, 2017, No. 1234 "About the additional measures connected with enhancement of management in the sphere of standardization, metrology, accreditation and protection of subjects of the patent law".

LEPL "Azerbaijan Institute of Metrology" (AzMi) operates under the State Service for Antimonopoly and Consumer Market Control under the Ministry of Economy of the Republic of Azerbaijan.

The Azerbaijan Institute of Metrology includes 5 regional territorial departments.

There are also private and subordinate metrology services in the field of ensuring the uniformity of measurements in the republic.

### Deputy General Director -

**Acting General Director: Mr. Rovshan Aliyev Bafa oglu**

**Address:** Elchin Isagzadeh settlement, 7<sup>th</sup> Kondalan street, AZ1029, Baku, Azerbaijan

**Phone:** +994 12 514 96 05 /101

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**Email:** [rovshan.aliyev@metrology.gov.az](mailto:rovshan.aliyev@metrology.gov.az)

**Web:** [www.metrology.az](http://www.metrology.az)

### The main tasks and activities of the Azerbaijan Institute of Metrology:

- storage, application and improvement of national (state) standards of units of quantities;
- formation and development of the base of state standards;
- ensuring the transfer of units of quantities from state standards;
- ensuring traceability of national (state) standards to the international standards of units of quantities or national standards of units of quantities of other Member States of the Metre Convention;
- participation in the comparisons of national (state) standards in the framework of regional and international metrology organizations;
- implementation of activities in the field of ensuring the uniformity of measurements, performing work and providing services for calibration and verification of measuring instruments;

- implementation of radioactivity analysis for determine of radionuclide isotopes in building materials and non-food products;
- testing of measuring instruments for the purpose of type approval, as well as attestation of test equipment;
- metrological examination of technical documentation;
- participation in the improvement of the legislative framework in the field of ensuring the uniformity of measurements;
- providing entrepreneurs with scientific and methodological assistance in metrological support of production and advice on metrology;
- organization of qualification and retraining of staff, performing works in the field of metrology;
- implementation of other functions stipulated by the Charter of the Institute.

### **3. National measurement standards**

<http://metrology.az>

### **4. Status of participation in the Metre Convention**

Azerbaijan is an Associate Member of the CGPM since 2015.

Signatory of the Mutual Recognition Agreement (CIPM MRA): AzMI (January 28, 2015)

Designated Institute: AzMI

(Has the right to use the CIPM MRA logo since March 29, 2021)

<https://www.bipm.org/en/about-us/associates/az/>

### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

AzMI QMS confirmation of recognition: (ISO/IEC 17025): QSF-R71 until 31.01.2023

### **6. State CMC data**

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=azerbaijan>

COOMET database: [http://www.coomet.org/DB/com/index.htm?RU,CMC\\_RU,RU](http://www.coomet.org/DB/com/index.htm?RU,CMC_RU,RU)

### **7. OIML membership status**

OIML Corresponding Member

[https://www.oiml.org/en/structure/members/memberslist\\_view?varCorresponding=1](https://www.oiml.org/en/structure/members/memberslist_view?varCorresponding=1)



# BELARUS

<b>COOMET MoU year of signing:</b>	8 December 1992
<b>Area:</b>	207,600 km <sup>2</sup>
<b>Population:</b>	9.452 million

## 1. Law on metrology

Law of the Republic of Belarus of September 5, 1995 No. 3848-XII "On Ensuring the Uniformity of Measurements" (as amended by Laws of the Republic of Belarus of 11.11.2019 No.254-3).

## 2. Metrological infrastructure

Gosstandart is a public administration body, maintaining the common public policy in the field of ensuring the uniformity of measurements.

Gosstandart establishes the State Metrology Service, which includes the National Metrology Institute and other legal entities, subordinate to Gosstandart and authorized by it for testing for the purpose of approval of the type of measuring instrument or reference material and for performing works on the metrological test in the field of legal metrology.

For ensuring the uniformity of measurements metrology services of public authorities, of legal entities, subordinate to public authorities, and of other legal entities can be established in the Republic of Belarus.

For ensuring the uniformity of measurements an Intersectoral Commission for Time, Frequency and Determining the Parameters of the Earth's Rotation has been established in the Republic of Belarus, which coordinates activities related to the procedure for calculating time on the territory of the Republic of Belarus, use of measuring instruments for reference frequencies and time, as well as determination of the parameters of the Earth's rotation.

Temporary intersectoral commissions can be established to deal with operational issues in the field of ensuring the uniformity of measurements.

**National information fund of the Republic of Belarus in the field of ensuring the uniformity of measurements:**

<http://www.oei.by>

The State Metrology Service is headed by the National Metrology Body – **State Committee for Standardization of the Republic of Belarus (Gosstandart of Belarus)**.

**Chairperson:** Mr. Valentin Tataritsky  
**Address:** 93 Starovilensky Trakt, 220053 Minsk, Republic of Belarus  
**Phone:** +375 17 379 62 13  
**Fax:** +375 17 363 25 88  
**Email:** [belst@gosstandart.gov.by](mailto:belst@gosstandart.gov.by)  
**Web:** <https://gosstandart.gov.by>

**The major activities of Gosstandart are as follows:**

- coordination of activities, related to the creation and operation of the System of Ensuring the Uniformity of Measurements of the Republic of Belarus;
- ensuring of the establishment and operation of the State Metrology Service;
- making of proposals to the Council of Ministers of the Republic of Belarus on the allowance for application of the quantity units in the Republic of Belarus;

- setting of requirements to national measurement standards of quantity units and measurement standards of quantity units, as well as rules for their development, approval, update and maintenance; approval of national measurement standards of quantity units;
- setting of requirements for measurement techniques (methods) to be applied in measurements in legal metrology, for rules of their development and application;
- setting of requirements for determining the quantity of prepackages;
- arrangement for the creation and maintenance of the State Information Fund for ensuring the uniformity of measurements;
- performance of state metrological supervision in accordance with the legislation on control (supervisory) activities;
- identification of a legal entity from among the legal entities, subordinate to it, to act as the national metrology institute and a body for accreditation of legal entities and sole proprietors, conducting verification and (or) calibration;
- approval of the requirements to be met by the legal entities, that perform state verification and (or) calibration of measuring instruments, used in measurements in legal metrology;
- approval of the requirements for the competence of state verification officers and the procedure of its confirmation;
- approval of the accreditation rules, which regulate procedures and other issues of accreditation of legal entities and sole proprietors, performing verification and (or) calibration;
- approving the procedure for the certification of state inspectors on state metrology supervision;
- approval of criteria and procedure for assigning technical devices to measuring instruments;
- approval of the rules for conducting metrological audit;
- approval of a model regulation on a metrology service;
- making of decisions on assigning technical devices to measuring instruments;
- approval of the regulation on the authorization of legal entities, belonging to the state metrology service, for testing for the purpose of approval of the type of a measuring instrument or reference material, for performing works on the metrological test in the field of legal metrology, other legal entities for performing state verification and authorization of legal entities for performing the above activities;
- defining of a list of categories of measuring instruments, representing a combination of measuring instruments having the same function, used in measurements in legal metrology, the specimens of the approved type of which are subject to state verification with a set frequency;
- adoption of an Order for the type approval of a measuring instrument or reference material, issue of the type approval certificates for measuring instruments or reference materials;
- defining of the form of metrological traceability in approving national measurement standards of quantity units and in approving the type of a measuring instrument;
- defining of the form and procedure for the application of type approval marks of measuring instruments, approval of the type of a reference material, verification, calibration;
- taking of actions on the recognition of national measurement standards of quantity units by foreign states, as well as on the realization of mutual recognition of the results of testing for the purpose of approval of the type of a measuring instrument or reference material, results of verification and (or) calibration, qualification of measurement procedures (methods) based on international agreements of the Republic of Belarus, and the law of the Eurasian Economic Union;
- participation in the preparation and consideration of draft resolutions and recommendations of the Eurasian Economic Commission, carrying out procedures of the cancellation or changing of the resolutions, adopted by the Board of the Eurasian Economic Commission, and preparation of initiatives for consideration during the meetings of the Council of Eurasian Economic Commission and (or) the Board of the Eurasian Economic Commission, interaction with public authorities (organizations), other organizations on these issues;
- conclusion of international contracts of interdepartmental nature of the Republic of Belarus within the scope of its powers;

- representation of the Republic of Belarus in international organizations on metrology as the national body on metrology within the scope of its powers.

The State Metrology Service includes BelGIM, BelGISS and 15 regional metrological centers of Gosstandart (Decree of Gosstandart of 27.11.2020 No. 76 "About State Metrology Service").

National Metrology Institute of the Republic of Belarus – **Belarusian State Institute of Metrology (BelGIM)**.

**Director:** Mr. Aleksandr Kazachok

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**Web:** <http://www.belgim.by>

**The major activities of BelGIM are as follows:**

- conduct of fundamental and applied scientific research in metrology;
- participation in formulation and implementation of the concepts of development of the State Metrology Service;
- participation in the improvement of legislation on ensuring the uniformity of measurements, in the preparation of draft documents, constituting the law of the Eurasian Economic Union (if the Republic of Belarus is identified as the party, responsible for the preparation of such drafts in accordance with the law of the Eurasian Economic Union);
- preparation of draft state scientific and technical programs, aimed at the preparation and upgrade of national measurement standards of quantity units and at the implementation of program tasks;
- making of proposals on the development of innovative projects in the field of ensuring the uniformity of measurements, aimed at the establishment and improvement of the measurement standard base of the Republic of Belarus, and participation in their implementation;
- examination of measurement standards of quantity units and submission of measurement standards for approval as national measurement standards of quantity units based on the results of examination;
- maintenance of national measurement standards of quantity units, organization of comparisons of national measurement standards of quantity units with international measurement standards of quantity units or with national measurement standards of quantity units of foreign states, ensuring the verification and (or) calibration of national measurement standards of quantity units;
- performance of works on the recognition of national measurement standards of quantity units by foreign states, inter alia as part of implementation of multilateral agreements, signed by the Republic of Belarus, by national metrology institute;
- preparation and issue of recommendations in the field of metrology;
- coordination and scientific and methodological support of comparisons of measurement results;
- performance of works on metrological test in legal metrology (testing for type approval of a measuring instrument or reference material, verification, calibration, metrological examination, certification of measurement procedures (methods), comparisons of measurement results);
- interaction with the legal entities, belonging to the state metrology service, metrology services of public authorities, of legal entities, subordinate to public authorities, and of other legal entities;
- creation and maintenance of the State Information Fund for ensuring the uniformity of measurements, cooperation with the media on the issues of ensuring the uniformity of measurements;

- participation in the work of international and regional organizations on metrology within the scope of the powers, specified by Gosstandart.

### **3. National measurement standards**

64 national measurement standards.

<http://www.oei.by/section?id=65>

### **4. Status of participation in the Metre Convention**

Member of the Metre Convention since 2020.

The Mutual Recognition Agreement (CIPM MRA) is signed by:

Gosstandart of the Republic of Belarus (October 14, 2003)

Designated Institute: BelGIM

(Has the right to use the CIPM MRA logo since November 13, 2006)

<https://www.bipm.org/en/countries/by>

### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

BelGIM QMS confirmation of recognition (ISO/IEC 17025): QSF-R82 until 30.09.2026 .

BelGIM QMS confirmation of recognition (ISO 17034): QSF-R83 until 30.09.2026 .

### **6. State CMC data**

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=belarus>

COOMET database: [http://www.coomet.org/DB/com/index.htm?RU,CMC\\_RU,RU](http://www.coomet.org/DB/com/index.htm?RU,CMC_RU,RU)

### **7. OIML membership status**

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=20&CountryName=BELARUS&iso=BY&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=20&CountryName=BELARUS&iso=BY&M=1)



# BOSNIA and HERZEGOVINA

<b>COOMET MoU year of signing:</b>	5 June 2013 (associate member)
<b>Area:</b>	51,197 km <sup>2</sup>
<b>Population:</b>	3.840 million

## 1. Law on metrology

The Law on Metrology of Bosnia and Herzegovina (Official Gazette of Bosnia and Herzegovina No. 19/01).

## 2. Metrological infrastructure

### **Metrological infrastructure of Bosnia and Herzegovina:**

- Institute of Metrology of Bosnia and Herzegovina (IMBIH);
- Two designated institutes (owners of national standards);
- Organizations working in the field of metrology;
- Accredited calibration laboratories;
- Designated metrology laboratories and bodies (for example, calibration laboratories);
- Conformity assessment bodies for measuring instruments.

Institute of Metrology of Bosnia and Herzegovina (IMBIH) – representing National Metrology Institute in Bosnia and Herzegovina, directly responsible to the Council of Ministers of Bosnia and Herzegovina.

IMBIH is responsible for the establishment of a comprehensive measuring system in Bosnia and Herzegovina with traceability to the International System of Units SI.

Areas of IMBIH's work are:

- Scientific Metrology;
- Legal Metrology;
- Industrial Metrology.

### **General Director: Dr. Zijad Dzemic**

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**Web:** <http://www.met.gov.ba>

IMBIH's responsibilities regarding Scientific Metrology:

- Realization and maintenance of national measurement standards ensuring their traceability to the internationally recognized measurement standards – realization of SI base and derived units;
- Establishment of distributed measurement system by appointing other legal entity for performing responsibilities of national measurement standard holder;
- Membership in RMOs and active participation in their activities;
- Promotion of metrology;
- To support research and development in all areas of metrology.

IMBIH's responsibilities regarding Legal Metrology:

- Issuance of bylaws in accordance with Law on Metrology;
- Supervision of the implementation of Law on Metrology;
- Nomination of laboratories dealing with verification;
- Nomination of bodies for conformity assessment (MID and NAWI and non-harmonized area);
- Nomination of bodies for control of prepacked products;
- Issuance and acceptance of type approval.

IMBIH's Membership in International Organizations:

EMRP (European Metrology Research Programme) - Member since 2013

EURAMET (European Association of National Metrology Institutes) - Member since 2009

IAAO (International Association Assay Office) - Observer since 2010

WELMEC (European cooperation in legal metrology) - Member since 2019

GULFMET (Regional Metrology Organization of Gulf countries) - Associate Member since 2013

### **3. National measurement standards**

<http://met.gov.ba/Default.aspx?pageIndex=1&langTag=en-US>.

### **4. Status of participation in the Metre Convention**

Bosnia and Herzegovina is an associate member of the CGPM since 2011.

Mutual Recognition Agreement (CIPM MRA) signatory:

Institute of Metrology of Bosnia and Herzegovina (IMBIH) (June 15, 2011)

(has the right to use the CIPM MRA logo from August 10, 2012).

Designated Institutions:

In the field of chemistry, water, fresh water and polluted water: Institut za vode d.o.o. Bijeljina ([IW](#)).

In the field of mass and related quantities, fluid flow, volumetric gas flow: KJKP Sarajevogas d.o.o. Sarajevo ([LABSAGAS](#))

<https://www.bipm.org/en/about-us/associates/ba/>

### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

Bosnia and Herzegovina receives its NMI QMS recognition within EURAMET.

IMBIH has fully implemented following standards in its QMS: ISO/IEC 17025; ISO/IEC 17020; ISO/IEC 17043; ISO 9001; ISO/IEC 27001.

### **6. State CMC data**

Bosnia and Herzegovina publishes its CMC data within EURAMET.

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=bosnia+and+herzegovina>

### **7. OIML membership status**

OIML Corresponding member since March 1997.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=27&CountryName=BOSNIA%20AND%20HERZEGOVINA&iso=BA&M=2](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=27&CountryName=BOSNIA%20AND%20HERZEGOVINA&iso=BA&M=2)





# BULGARIA

<b>COOMET MoU year of signing:</b>	12 June 1991
<b>Area:</b>	110,994 km <sup>2</sup>
<b>Population:</b>	6.921 million

## 1. Law on metrology

"Law on measurements", effective from 09.11.2002, published in SG, issue 46/7.05.2002, last amended SG, Issue 72/13.9.2019.

## 2. Metrological infrastructure

The policy in the field of metrology is defined by the Council of Ministers of the Republic of Bulgaria on a proposal from the Minister of Economy. In the process of policy making the Minister of Economy is supported by the president of the Bulgarian Institute of Metrology and the president of the State Agency for Metrological and Technical Surveillance.

Ministers and heads of state bodies organize the activities to ensure traceability, accuracy and reliability of measurements in their legal entities.

**The Bulgarian Institute of Metrology (BIM)** is a legal entity to the Minister of Economy, at budget support. BIM has functions of the national metrology institute and national legal metrology authority.

**The State Agency for Metrological and Technical Surveillance (SAMTS)** is a legal entity to the Minister of Economy, at budget support, that is in charge of carrying out metrological surveillance according to the Law on measurements.

### The Bulgarian Institute of Metrology (BIM)

**President:** Mrs. Snezhana Spasova  
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**Phone:** +359 2 9702 773  
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**Email:** [s.spasova@bim.government.bg](mailto:s.spasova@bim.government.bg)  
**Web:** [bim.government.bg](http://bim.government.bg)

### Scientific metrology

- ✓ BIM through the General Directorate "National Centre of Metrology" (GD NCM):
  - establishes and maintains the national measurement standards of the Republic of Bulgaria;
  - organizes establishment and development of the national system of certified reference materials;
  - carries out metrological research and provides measurement-related services in areas of public, scientific and economic interest;
  - performs activities for international recognition of measurement results carried out in the country.

## **Legal metrology**

### In non-harmonized European legislation:

- ✓ BIM through the General Directorate "Measures and Measuring Instruments" (GD MMI):
  - carries out control of measuring instruments (type approval, initial and subsequent verifications);
  - carries out metrological expertise of measuring instruments.
- ✓ SAMTS through the General Directorate "Metrological Supervision":
  - performs metrological supervision for compliance with the requirements of the Law on measurements;
  - controls pre-packages and packaging designed as measuring vessels;
  - authorizes bodies for initial and subsequent verifications of some categories of measuring instruments – energy meters, gas meters, water meters, heat meters, etc.

### In harmonized European legislation:

BIM is a Notified Body (Nr. 1957) for conformity assessment of non-automatic weighing instruments (NAWID) and some categories of measuring instruments (MID). Other bodies, notified by SAMTS, also exist.

## **Industrial metrology**

Accredited private or public laboratories carry out calibration of measuring instruments.

### **Contacts:**

**General Directorate "National Centre of Metrology" (GD NCM) implements the BIM policy in the field of fundamental metrology.**

**General Director: Mrs. Antoaneta Yovcheva**

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**Phone:** +359 2 9702 703

**Fax:** +359 2 9702 777

**Email:** [a.yovcheva@bim.government.bg](mailto:a.yovcheva@bim.government.bg)

**General Directorate "Measures and Measuring Instruments" (GD MMI) implements the BIM policy in the field of legal metrology.**

**General Director: Mr. Valentin Starev**

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### **SAMTS:**

**President: Mr. Petar Gornovski**

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**Phone:** +359 2 980 89 20

**Fax:** +359 2 986 17 07

## **General Directorate "Metrological Supervision" (GD MS) of SAMTS**

**General Director: Mrs. Rayna Tsekova**

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**Fax:** +359 2 9396 701

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### **3. National measurement standards**

Bulgaria has 11 national standards.

<https://bim.government.bg/uploaded/files/490-RegistarNE.pdf>

### **4. Status of participation in the Metre Convention**

Member of the Metre Convention since 1911.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

Bulgarian Institute of Metrology (October 14, 1999)

(Has the right to use the CIPM MRA logo since September 12, 2006)

<https://www.bipm.org/en/about-us/member-states/bg/>

### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

Bulgaria receives its NMI QMS recognition within EURAMET.

### **6. State CMC data**

Bulgaria publishes its CMC data within EURAMET.

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=bulgaria>

### **7. OIML membership status**

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=33&CountryName=BULGARIA&iso=BG&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=33&CountryName=BULGARIA&iso=BG&M=1)



# CHINA

<b>COOMET MoU year of signing:</b>	20 April 2016 (associate member)
<b>Area:</b>	9,634 million km <sup>2</sup>
<b>Population:</b>	1.4 billion

## 1. Law on metrology

Metrology Law of People's Republic of China (Amended Oct.26, 2018).

## 2. Metrological infrastructure

All activities in the field of metrology in China is regulated by the **Metrology Law of the People's Republic of China**, which is adopted at the 12th Meeting of the Standing Committee of the Sixth National People's Congress and promulgated by Order No. 28 of the President of the People's Republic of China on September 6, 1985, and effective as of July 1, 1986. This Law is formulated to strengthen the metrological supervision and administration, to ensure the uniformity of the national system of units of measurement and the accuracy and reliability of the values of quantities, so as to contribute to the development of production, trade and science and technology, to meet the needs of socialist modernization and to safeguard the interests of the state and the people.

The **State Administration for Market Regulation of P. R. China (SAMR)** is the ministerial, administrative body directly under the State Council of the People's Republic of China in charge of the following duties:

- to conduct comprehensive supervision and management of the market;
- to execute uniform registration of market economic operators and strengthen and information transparency and sharing mechanism to organized integrated market surveillance enforcement and undertake antimonopoly law enforcement, so as to normalize and maintain the market order;
- to organize the fulfilment of the national quality strategy, promoting industry quality advancement, promoting imported food safety and supervising the special equipment safety as well;
- to be responsible for the building up national systems and infrastructure of measurement, standards, testing, certification and accreditation;

In addition, SAMR is also entrusted to oversee the newly restated State Drug Administration and newly restructured State Bureau of Intellectual Property.

The **Department of Metrology of SAMR** is responsible for metrology administration.

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Founded in 1955, **National Institute of Metrology of the People's Republic of China (NIM)** is a non-profit research organization under the State Administration for Market Regulation of P. R. China (SAMR). It is China's national metrology institute (NMI) and the state-level technical center for legal metrology. It stays at the top of China's traceability chain.

As of September 2022 , NIM has about 1050 staff members. NIM has two campuses. The Hepingli Campus focuses on R&D in traditional areas and service provision and is NIM's customer service center. The Changping Campus focuses on cutting-edge research that has a high requirement on laboratory conditions.

### **3. National measurement standards**

As of September 2022, NIM maintains 13628 national primary standards and 400 national measurement standards.

### **4. Status of participation in the Metre Convention**

Member of the Metre Convention since 1977.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

NIM (October 14, 1999), has the right to use the CIPM MRA logo from November 27, 2006.

Applied Institute: Hangzhou Applied Acoustics Research Institute (HAARI) (from January 1, 2013)

<https://www.bipm.org/en/about-us/member-states/cn/>

A representative of NIM (Dr Y. Duan) is a member of CIPM (since 2010).

NIM has representatives in 10 BIPM Consultative Committees.

### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

China receives its NMI QMS recognition within APMP.

### **6. State CMC data**

China publishes its CMC data within APMP.

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=china>

### **7. OIML membership status**

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=44&CountryName=P.R.%20CHINA&iso=CN&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=44&CountryName=P.R.%20CHINA&iso=CN&M=1)



# CUBA

<b>COOMET MoU year of signing:</b>	13 November 1991 (associate member)
<b>Area:</b>	110,860 km <sup>2</sup>
<b>Population:</b>	11.1 million

## 1. Law on metrology

Decree - Law No.8 Standardization, Metrology, Quality and Accreditation.

## 2. Metrological infrastructure

**The National Research Institute on Metrology (INIMET)** of Cuban National Bureau of Standards as NMI, is the institution responsible for measurement standards and scientific metrology. It is in charge of the following main activities:

- to implement, improve, maintain and compare, at the international level, the Cuban national measurement standards and transfer their values to secondary standards;
- to carry out research and scientific-technical development in the field of metrology;
- to calibrate working standards and instruments of secondary laboratories;
- to carry out type evaluation of measurement instruments;
- to participate in the elaboration of standards and technical regulations for verification and calibration of measuring instruments;
- to educate and train specialists for legal metrology and industrial calibration laboratories.

**Director:** Mr. Jose Zaldivar

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**Web:** <http://www.inimet.cubaindustria.cu/>

**The Center of Isotopes (CENTIS)** is the designated laboratory in the field of Radioactivity. CENTIS belongs to the Agency of Nuclear Energy and Advanced Technologies of the Ministry for Science, Technology and Environment (CITMA). The main objective of this center is the production and R&D of radiopharmaceuticals, RIA kits and radioactive labelled compounds for the Cuban Health System as well as to perform specialized technical services and application of Nuclear Techniques to solve economical national problems, including those related to metrology of ionizing radiation. The Department of Radionuclides Metrology of the Center of Isotopes, the CENTIS-DMR, is responsible for the establishment, developing, conservation, custody and diffusion of National Standards of Radionuclide Activity units (Becquerel). CENTIS-DMR is the scientific and methodological warrantor for achieving the traceability to these standards of the radioactivity measurements performed at national level.

**Director:** Dr. Rene Leyva Montana

**Address:** Ave. Monumental y Carretera La Rada, Km 3 1/2, CP 32700, San Jose de las Lajas, Mayabeque, Republic of Cuba

**Phone:** +537 682 95 24

**Fax:** +537 866 98 21

**Email:** [rene@centis.edu.cu](mailto:rene@centis.edu.cu)

**Web:** [www.centis.cu](http://www.centis.cu)

**The Center for Radiation Protection and Hygiene (CPHR)** is a designated laboratory mainly responsible for the dosimetry standards in the field of ionizing radiation. The Dosimetry Laboratory of the CPHR performs the following obligations:

- to maintain traceability in Cuba to the international measurement system through implementing and improving national standards and calibrating measuring instruments;
- to participate in comparison exercises of the standards at international level;
- to carry out research and scientific-technical development in the field of ionizing radiation metrology;
- to provide education to specialists and users in the field of radiation measurements.

**Director:** Mr. Gonzalo Walwyn Salas

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**Web:** <http://www.cphr.edu.cu/>

**The institutions responsible for Legal Metrology are:**

**a) Cuban National Bureau of Standards (NC)** is the National Authority and is responsible for the development of metrology and legal metrology and performs the functions of the central steering body of state administration in the field of metrology. NC is integrated into the OIML Certification System (OIML-CS) as a utilizing organization.

The main tasks and activities of the NC in the field of metrology are:

- elaboration and realisation of state policy in metrology;
- preparation of laws and decrees referring to metrology;
- steering of metrology in the state in the scope given by the Law on Metrology, including subordinate metrological institutions and Legal Metrology Service;
- methodical activity and supervision of activities in metrology;
- representation of the Republic of Cuba in the international metrological associations.

**General Director: Dr. Nancy Fernández Rodríguez**

**Director of Metrology Department: Mr. Fernando Arruza Rodríguez**

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**Web:** <http://www.nc.cubaindustria.cu>

**b) Territorial Centres of Metrology (TCM) which**

are subordinate institutions of NC. These institutions are charged with the following main activities:

- to verify the legal measurement instruments;
- to calibrate the working standards of measurement units (for industry);
- to calibrate the ordinary measuring instruments for customers;
- to carry out the type evaluation of measuring instruments.

TCM laboratories were accredited by ONARC according to ISO IEC 17025 standard.

**c)** The other institutions in the field of legal metrology are **Metrological Laboratories** (Industry). These institutions (established in factories or other organisation) are calibration laboratories. NC authorises some of them for verification of the specified kinds of legal measuring instruments, if necessary.

The calibration of ordinary measuring instruments is performed by more than 170 calibration laboratories, established in the framework of industry or other organisations.

### **3. National measurement standards**

**National Electrical Resistance measurement standard, INIMET.**

- Group standard is formed by a set of 8 resistance measures of nominal value 1  $\Omega$

**National liquid volume measurement standard, INIMET.**

- Pipette of 1 L nominal capacity
- Pipette of 2 L nominal capacity
- Pipette of 5 L nominal capacity
- Pipette of 10 L nominal capacity

**National relative pressure measurement standard, INIMET.**

- Piston and Weight Gauge (0,5 to 20) Mpa
- Piston and Weight Gauge (5 to 200) Mpa
- Piston and Weight Gauge (50 to 2000) kPa

**National dosimetry standards, CPHR.**

- Group of standards is formed by 7 ionisation chambers for dosimetry at the levels of radiation protection, radiotherapy and diagnostic radiology



## National standards of activity measurements, CENTIS

(Measurements of  $^{241}\text{Am}$ ,  $^3\text{H}$ ,  $^{32}\text{P}$ ,  $^{60}\text{Co}$ ,  $^{90}\text{Y}$ ,  $^{90}\text{Y}+^{90}\text{Sr}$ ,  $^{131}\text{I}$ ,  $^{99}\text{Tc}^m$ ,  $^{137}\text{Cs}$ ,  $^{18}\text{F}$ ,  $^{22}\text{Na}$ ,  $^{68}\text{Ga}$ ,  $^{125}\text{I}$ , other gamma emitters)

- Standard Liquid Scintillation Counter
- Standard Gamma Spectrometer
- Set of the standard sources
- Set of the standard weights

## 4. Status of participation in the Metre Convention

Cuba ceased to be an Associate of the CGPM from 1<sup>st</sup> January 2022 and terminated its participation in the implementation of the CIPM Mutual Recognition Arrangement (CIPM MRA).

## 5. Confirmations of recognition of QMS of NMIs (within COOMET)

INIMET QMS confirmation of recognition (ISO/IEC 17025): QSF-R56 until 04.10.2023

CENTIS QMS confirmation of recognition (ISO/IEC 17025): QSF-R55 until 04.10.2023

CPHR QMS confirmation of recognition (ISO/IEC 17025): QSF-R57 until 04.10.2023

*Note - INIMET, CENTIS and CPHR have established a quality system in accordance with ISO / IEC 17025 and the Mutual Recognition Agreement for national measurement standards and for calibration and measurement certificates issued by national metrology institutes. In 2008 this system was accredited by the National Accreditation Body (ONARC) of the Republic of Cuba and recognized by COOMET in accordance with the above international standard.*

## 6. State CMC data

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=cuba>

COOMET database: [http://www.coomet.org/DB/com/index.htm?RU,CMC\\_RU,RU](http://www.coomet.org/DB/com/index.htm?RU,CMC_RU,RU)

## 7. OIML membership status

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=55&CountryName=CUBA&iso=CU&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=55&CountryName=CUBA&iso=CU&M=1)



# GEORGIA

<b>COOMET MoU year of signing:</b>	4 September 2006
<b>Area:</b>	69,700 km <sup>2</sup>
<b>Population:</b>	3.7 million

## 1. Law on metrology

"Product Safety and Free Movement Code", № 6157-Ilb

Date of publication: 25 May, 2012

Last modified date: 05 February, 2020

## 2. Metrological infrastructure

**Metrology Institute of Georgia** is a structural unit of Legal Entity of Public Law – **Georgian National Agency for Standards and Metrology (GEOSTM)**, which is in the system of the Georgian Ministry of Economy and Sustainable Development. Legal basis for providing uniformity of measurement in the country is Product Safety and Free Movement Code, which includes laws "About Provision Uniformity of Measurements", and also other laws related to Quality Infrastructure.

Objectives, functions, rights and obligations of the Agency are represented by:

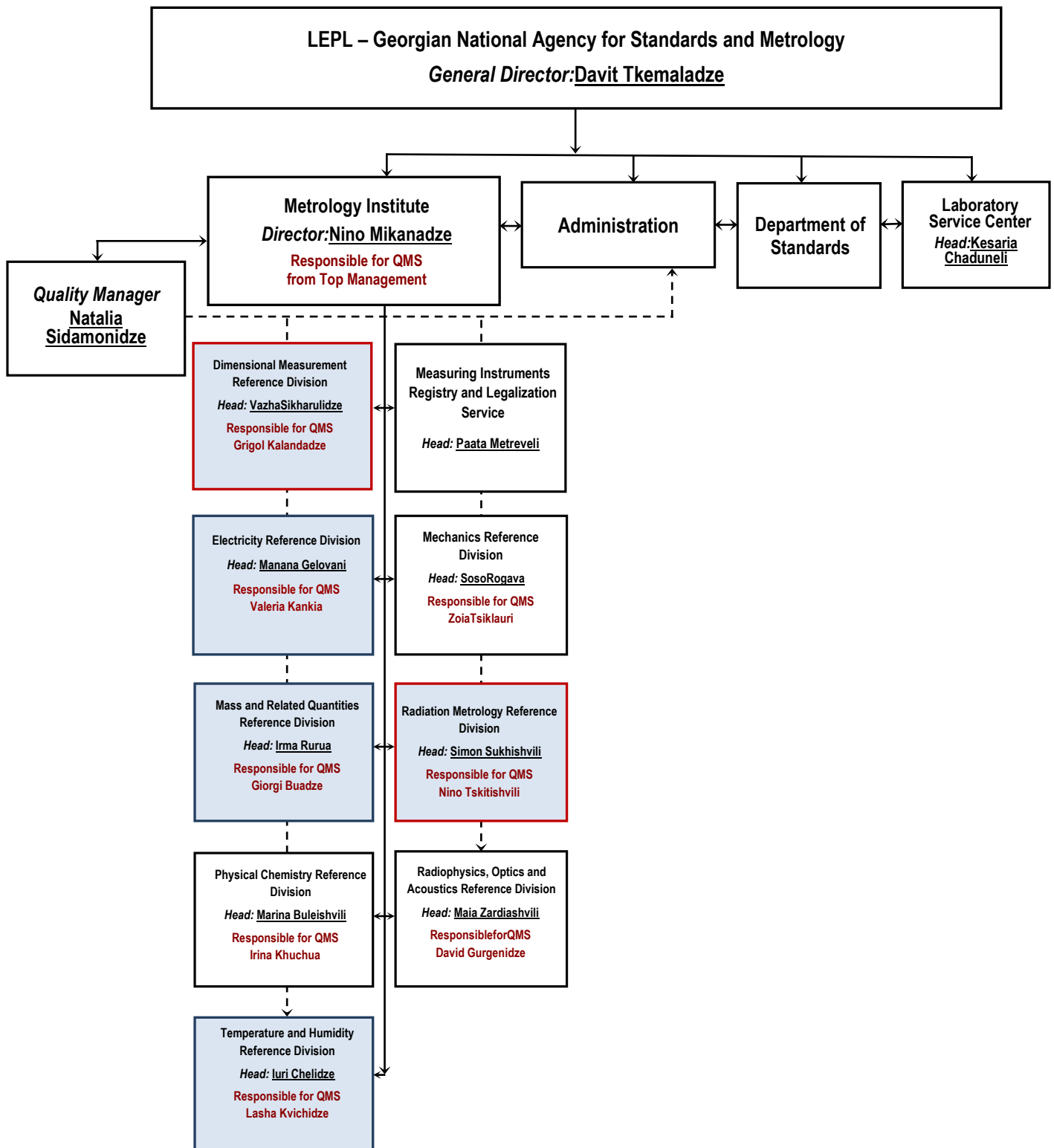
- reproduction of measurement units by means of measurement standards and reference measuring equipment, transfer of units in Georgia in order to provide uniformity of measurement on the country's territory;
- participation in creation and development of measurement standards base for verification, calibration and type approval works of measuring equipment (including imported ones) in accordance with the Georgian legislation in force;
- participation in forming and conducting state policy in the field of standardization and metrology and coordination of activities in these fields;
- participation in forming of metrological system in accordance with the legislation Georgian in force;
- participation in developing normative base for improving fields of uniformity of measurement;
- organization and conduct of works on reproducing measurement units by means of measurement standards for providing uniformity of measurements on the whole territory of the country;
- participation in works of developing scientific-methodic basis for developing system of uniformity of measurements;
- organization of works related to standards registry, its management and provision of publication of standards list (registry).

Activities of the Metrology Institute cover the works on:

- development, maintenance and improvement of measurement standards base;
- maintenance of registry of national (state) standards of Georgia;
- calibrations and measurements;
- verification;
- expert measurements;
- type approval, type registration of measuring instrument;

- maintenance of registry of type of measuring instrument;
- recognition of results of initial verification, etc.

### Organizational Structure of the Agency (GEOSTM)



For 100% factor of availability of public information for the year 2014 (similarly like in 2012-2013) the Agency was awarded a certificate by the Institute for Development of Freedom of Information (IDFI).

The Agency was awarded a diploma of the Ministry of Economy and Sustainable Development of Georgia within the framework of the Success and Recognition program in the nomination - "Structure of the Future".

## **Organization management and contact details:**

### **Georgian National Agency for Standards and Metrology (GEOSTM).**

#### **General Director: Mr. Davit Tkemaladze**

**Address:** Chargali Str., 67, 0178 Tbilisi, Georgia  
**Phone:** +995 32 261 35 00, +995 32 261 25 30  
**Fax:** +995 32 261 35 00  
**Email:** [geostm@geostm.ge](mailto:geostm@geostm.ge)  
**Web:** <http://geostm.ge/>

#### **Director: Ms. Nino Mikanadze**

**Address:** Chargali Str., 67, 0178 Tbilisi, Georgia  
**Phone:** +995 32 261 77 57  
**Fax:** +995 32 261 35 00  
**Email:** [nino\\_mikanadze@yahoo.com](mailto:nino_mikanadze@yahoo.com)

## **3. National measurement standards**

Number of national measurement standards: 21.

<http://geostm.ge/8/wp-content/uploads/2022/02/%E1%83%A0%E1%83%94%E1%83%94%E1%83%A1%E1%83%A2%E1%83%A0%E1%83%98-etalonebi-1.pdf>

## **4. Status of participation in the Metre Convention**

Georgia is an associate member of CGPM since 2008.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

National Agency of Georgia for Standards and Metrology (GEOSTM) (June 17, 2008).

(Has the right to use the CIPM MRA logo from June 3, 2014).

<https://www.bipm.org/en/about-us/associates/ge/>

## **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

GEOSTM QMS confirmation of recognition (ISO/IEC 17025): QSF-R58 until 04.10.2023.

## **6. State CMC data**

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=georgia>

COOMET database: [http://www.coomet.org/DB/com/index.htm?RU,CMC\\_RU,RU](http://www.coomet.org/DB/com/index.htm?RU,CMC_RU,RU)

## **7. OIML membership status**

OIML Corresponding member.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=80&CountryName=GEORGIA&iso=GE&M=2](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=80&CountryName=GEORGIA&iso=GE&M=2)



# GERMANY

<b>COOMET MoU year of signing:</b>	13 November 1991 (associate member)
<b>Area:</b>	357,578 km <sup>2</sup>
<b>Population:</b>	83 million

## 1. Law on metrology

Units and Time Act (EinhZeitG)

Date of first publication: 22 February 1985

Date of latest change: 18 July 2016.

## 2. Metrological infrastructure

1. The institution responsible for measurement standards and scientific metrology in Germany is the **Physikalisch-Technische Bundesanstalt (PTB)**.

It is the National Metrology Institute providing scientific and technical services.

PTB's responsibilities are to achieve progress and ensure reliability in the field of metrology for the benefit of society, economy and science with research, measurement and consulting being its main activities.

Areas of PTB's work are:

- realization, reproduction and dissemination of the SI units;
- development of national measurement standards;
- determination of fundamental constants and exploitation of quantum effects for realizing the units;
- provision of traceable reference materials and determination of material properties;
- development of accurate and reliable measurement procedures;
- contribution to standardization and technology transfer by consulting and seminars;
- pattern evaluations, conformity assessment and consulting;
- metrology in commercial transactions, environmental, labor and radiation protection, medicine and safety engineering;
- cooperation in European and international metrology organizations as well as with metrology institutes around the world;
- technical cooperation with countries with emerging economies

**President: Prof. Dr. Cornelia Denz**

**Vice-President: Dr. Frank Härtig**

**Member of Presidential Board: Dr. Annette Röttger**

**Address:** Bundesallee 100, 38116 Braunschweig, Germany

**Phone:** +49 531 592 0

**Fax:** +49 531 592 9292

**Email:** [Cornelia.Denz@ptb.de](mailto:Cornelia.Denz@ptb.de)  
[Frank.Haertig@ptb.de](mailto:Frank.Haertig@ptb.de)  
[Annette.Roettger@ptb.de](mailto:Annette.Roettger@ptb.de)

**Web:** [www.ptb.de](http://www.ptb.de)

## 2. Institutions responsible for legal metrology

The basic principles of legal metrology are stipulated by the Units and Time Act and the Measurement and Verification Act, including the relevant implementing ordinances and additional regulations. The physical and technical basis of the units to be applied in official and commercial transactions is today's International System of Units (SI). The tasks of legal metrology are distributed between the federal and the state authorities. PTB is responsible for type examination and conformity assessment of measuring instruments and traceability to national standards used by the verification authorities. The verification authorities of the sixteen federal states and the officially approved test centers for measuring instruments in the field of electricity, gas, water and heat are responsible for the individual testing of measuring instruments subject to mandatory verification.

### Office of Consortium on Metrology and Verification at German Academy of Metrology (DAM)

**Address:** Franz-Schrank-Str. 9, 80638 München, Germany

**Phone:** +49 89 17 901-333

**Fax:** +49 89 17 901-386

**Email:** [dam@lmq.bayern.de](mailto:dam@lmq.bayern.de)

## 3. Institutions responsible for calibration service:

Calibrations are performed by the calibration laboratories accredited by the "**Deutsche Akkreditierungsstelle GmbH (DAkkS)**" founded by the German Government in Cooperation with the German Federation of Industry (BDI). The basis of the DAkkS (former DKD accreditation body) accredited calibration laboratories is the traceability of their reference standards to the national standards provided by the National Metrology Institute, the PTB or other National Metrology Institutes. Industrial laboratories and other institutes which, due to their trained personnel and equipment, are able to perform measurements with the required uncertainty and whose standards are traceable to the national standards of the PTB, are accredited as calibration laboratories. Accreditation is granted by DAkkS after assessment of the laboratories in accordance with the standard DIN EN ISO/IEC 17025. Membership of DAkkS in the European Cooperation for Accreditation (EA) and the International Laboratory Accreditation Cooperation (ILAC) ensures the recognition of the calibration certificates in all member countries worldwide. At present there are about 470 accredited calibration laboratories for electrical, magnetic, dimensional, mechanical, acoustical, fluid and optical quantities, as well as for chemical analysis, reference materials, time and frequency, ionizing radiation and radioactivity, temperature and humidity.

As PTB is responsible by law for the uniformity of measurement in Germany, the DKD (Deutscher Kalibrierdienst) was reestablished in May 2011 to represent a forum for information exchange and the elaboration of harmonized calibration guides. About 500 laboratories and individuals are members of the DKD, which is subdivided into 13 technical committees. DKD is a member of the EUROCAL, the European association of national associations of calibration laboratories. DKD closely cooperates with DAkkS to support the German calibration system.

**Head of the department "Metrology | Constructions | Transport | Renewable Energy" of DAkkS: Dr. Heike Manke**

**Address:** Bundesallee 100, 38116 Braunschweig, Germany

**Phone:** +49 531 592 1900

**Fax:** +49 531 592 1905

**Email:** [heike.manke@dakks.de](mailto:heike.manke@dakks.de)

**Chairperson of DKD: Dr. Wolfgang Schmid**

**Address:** Bundesallee 100, 38116 Braunschweig, Germany

**Phone:** +49 531 592 9100

**Fax:** +49 531 592 699100

**Email:** [dkd@ptb.de](mailto:dkd@ptb.de)

#### **4. National measurement standards**

<https://www.ptb.de/cms/en/ptb/fachabteilungen.html>

#### **5. Status of participation in the Metre Convention**

Member of the Metre Convention since 1875.

Signatory of the CIPM MRA:

Physikalisch-Technische Bundesanstalt (PTB) (14 of October, 1999)

(Has the right to use the CIPM MRA logo from the 28 of November, 2006)

Designated institutes:

- *Bundesamt für Verbraucherschutz und Lebensmittelsicherheit (BVL)*, Berlin  
(Has the right to use the CIPM MRA logo from the 11 of November, 2016)
- *Bundesanstalt für Materialforschung und -prüfung (BAM)*, Berlin  
(Has the right to use the CIPM MRA logo from the 17 of January, 2008)
- *Umweltbundesamt (UBA)*, Langen  
(Has the right to use the CIPM MRA logo from the 17 of August, 2007)

<https://www.bipm.org/en/about-us/member-states/de/>

#### **6. Confirmations of recognition of QMS of NMIs (within COOMET)**

Germany receives its NMI QMS recognition within EURAMET.

#### **7. State CMC data**

Germany publishes its CMC data within EURAMET.

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=germany>

#### **8. OIML membership status**

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=81&CountryName=GERMANY&iso=DE&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=81&CountryName=GERMANY&iso=DE&M=1)



# KAZAKHSTAN

<b>COOMET MoU year of signing:</b>	11 November 1998
<b>Area:</b>	2,717 million km <sup>2</sup>
<b>Population:</b>	18.4 million

## 1. Law on metrology

The Law of the Republic of Kazakhstan "On ensuring the unity of measurements" of June 7, 2000 No. 53-II regulates public relations arising between state bodies, individuals and legal entities in the field of ensuring the uniformity of measurements, determines its goals, legal and organizational bases for ensuring the uniformity of measurements.

## 2. Metrological infrastructure

State management of activities to ensure the unity of measurements is carried out by the **Committee of Technical Regulation and Metrology of the Ministry of Trade and Integration of the Republic of Kazakhstan (CTRM MTI RK)**.

**The Chairman: Mr. Arman Abenov**

**Address:** Center of Measurement Standards, Mangilik Yel Avenue 11, 010000, Nur-Sultan, Republic of Kazakhstan

**Phone:** +7 7172 75 05 01

**Web:** <https://www.gov.kz/memleket/entities/mti-ktm?lang=ru>

In accordance with the Law of the Republic of Kazakhstan "On ensuring the unity of measurements" the main objectives of **CTRM MTI RK** are:

- formation and implementation of the state policy to ensure the unity of measurements;
- coordination of the metrological service of the Republic of Kazakhstan;
- establishment of measurement units admitted for application;
- organization of scientific research in the field of Metrology;
- establishment of rules of creation, approval, storage, use and comparisons of state measurement standards, improvement of measurement standard base of measurement units of the Republic of Kazakhstan;
- organization of comparison of the results of verification and calibration of measuring instruments;
- establishment of classification of state standards of units of quantities used in the territory of the Republic of Kazakhstan;
- determining the procedure for the development and approval of regulatory documents to ensure the uniformity of measurements;
- determination of General metrological requirements for measuring instruments, methods and results, methods of verification of measuring instruments;
- determination of the order of application, production and repair of measuring instruments;
- organization of the register of the state system of ensuring the unity of measurements;
- organization and conduct of state metrological control;
- representation of the Republic of Kazakhstan in international and regional Metrology organizations;
- organization of advanced training and retraining in the field of ensuring the unity of measurements.

The functions of the state scientific metrological center are performed by the **Republican state enterprise "Kazakhstan Institute of Standardization and Metrology" (RSE "KazStandard")**, formed in 2020 by the Decree



of the Government of the Republic of Kazakhstan dated October 2, 2020 No. 639, as a result of the merger of two institutions - RSE "Kazakhstan Institute of Standardization and Certification" (KazInSt) and RSE "Kazakhstan Institute of Metrology" (KazInMetr).

RSE "KazStandard" carries out the creation, improvement and storage of state standards, providing the highest link in the traceability chain of measurements in Kazakhstan.

As of February 2022, 302 people work in RSE "KazStandard", 7 branches operate in the regions of the country.

**General Director: Mr. Gabit Mukhambetov**

**Address:** Center of Measurement Standards, Mangilik Yel Avenue 11, 010000, Nur-Sultan, Republic of Kazakhstan

**Phone:** +7 7172 28 29 99

**Email:** [info@ksm.kz](mailto:info@ksm.kz)

**Web:** <http://www.ksm.kz>

**In the field of ensuring the uniformity of measurements RSE "KazStandard" carries out:**

- conducting scientific research in the field of ensuring the uniformity of measurements;
- carrying out comparisons of the results of verification, calibration of measuring instruments and interlaboratory comparative tests;
- carrying out work on professional development and retraining of personnel in the field of ensuring the uniformity of measurements;
- creation, improvement, storage and application of state measurement standards of units of quantities;
- creation of systems for transferring the sizes of units of quantities;
- development of documents on standardization in the field of ensuring the uniformity of measurements, measurement procedures, methods of verification and calibration of measuring instruments;
- production and repair of measuring instruments;
- production of standard samples, certified mixtures, calibration gas mixtures;
- verification and calibration of measuring instruments in accordance with Article 18 of this Law;
- carrying out metrological certification of measurement procedures in accordance with Article 18 of this Law;
- carrying out metrological expertise;
- carrying out and participation in comparisons of measurement standards of units of quantities;
- testing of measuring instruments for the purposes of type approval, metrological certification of measuring instruments, certification of test equipment;
- maintaining the register of the state system for ensuring the uniformity of measurements;
- certification, recertification and revocation of certificates of verifiers of measuring instruments;
- organization of production of verification marks;
- approbation of methods for checking measuring instruments;
- performance of work to ensure the uniformity of measurements of time and frequency, determination of the parameters of the Earth's rotation;
- performance of work related to the development and implementation of standard reference data on physical constants and properties of substances and materials;
- fulfillment of other powers established by the legislation of the Republic of Kazakhstan.

In the system of ensuring traceability of measurements from state standards to working measuring instruments used at industrial and manufacturing enterprises of the country, calibration and calibration laboratories of Kazakhstan participate, which are accredited in accordance with the Law of the Republic of Kazakhstan of July 5, 2008 No. 61-IV "On accreditation in the field of conformity assessment" at the National center of accreditation (LLP "NCA").

As of February 2022, in Kazakhstan there are 349 accredited verification laboratories and calibration laboratories 74, 3 organizations carrying out metrological certification of measurement techniques.

### 3. National measurement standards

Number of measurement standards: 102

(53 of them are state measurement standards and 49 are state working measurement standards).

<https://ksm.kz/metr/ge/>

### 4. Status of participation in the Metre Convention

Member of the Metre Convention since 2008.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

Republican State Enterprise "Kazakhstan Institute of Standardization and Metrology" (RGP "KazStandard")\* (January 6, 2006)

(Has the right to use the CIPM MRA logo from April 13, 2011).

<https://www.bipm.org/en/about-us/member-states/kz/>

*\* former RGP "KazInMetr"*

### 5. Confirmations of recognition of QMS of NMIs (within COOMET)

RSE "KazStandard" (including Karaganda branch (Karaganda) and branch for the city of Almaty and Almaty region (Almaty)) QMS confirmation of recognition (ISO/IEC 17025): №QSF-R81 from 12.04.2021 until 12.04.2026 (subject to passing a full-time peer review in 2022-2023)

RGP "KazInMetr" QMS confirmation of recognition (ISO 17034): №QSF-R60 until 15.02.2022 (validity period extended until 31.12.2022 by the decision of the COOMET President in view of Resolution JCRB 45-1).

### 6. State CMC data

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=kazakhstan>

COOMET database: [http://www.coomet.org/DB/com/index.htm?RU,CMC\\_RU,RU](http://www.coomet.org/DB/com/index.htm?RU,CMC_RU,RU)

### 7. OIML Membership status

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=110&CountryName=KAZAKHSTAN&iso=KZ&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=110&CountryName=KAZAKHSTAN&iso=KZ&M=1)



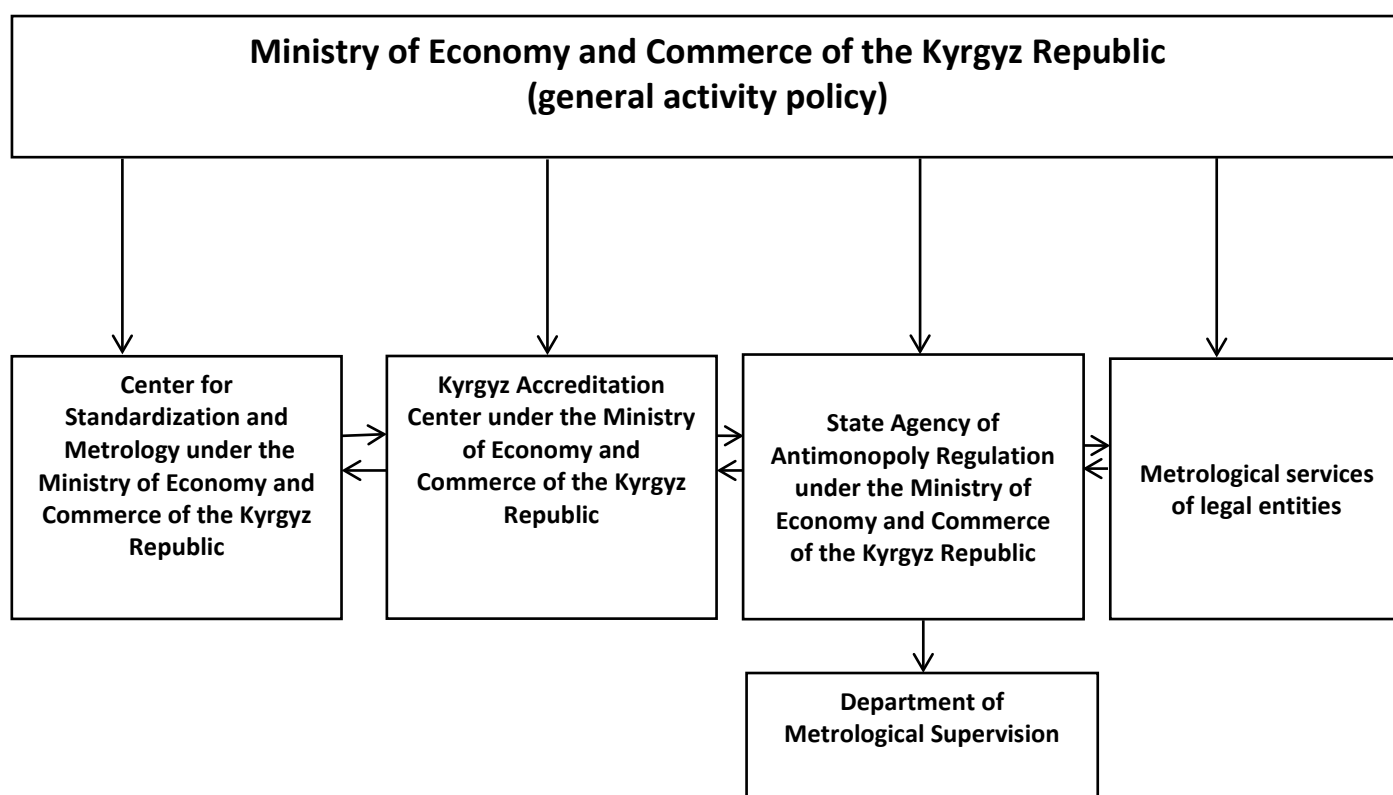
# KYRGYZSTAN

**COOMET MoU year of signing:** 25 May 2000  
**Area:** 199,95110 km<sup>2</sup>  
**Population:** 6.97 million

## 1. Law on metrology

Law of the Kyrgyz Republic of July 9, 2014 No. 118 "On ensuring the unity of measurements"(as amended by the Law of the Kyrgyz Republic of March 4, 2020 No. 23).

## 2. Metrological infrastructure



State management activities to ensure traceability in the country is regulated by **The Ministry of Economy and Commerce of the Kyrgyz Republic (MEC KR)** in accordance with the law of the Kyrgyz Republic "On ensuring the Unity of Measurements" No. 118 from 09.07.2014 (as amended by the Law of the Kyrgyz Republic of March 4, 2020 No. 23).

The organizational structure of the National Metrology System consists of the Ministry of Economy and Commerce of the Kyrgyz Republic, Center for Standardization and Metrology under the Ministry of Economy and Commerce of the Kyrgyz Republic and Department of Metrological Supervision of the State Agency of Antimonopoly Regulation under the Ministry of Economy and Commerce of the Kyrgyz Republic.

### The Ministry of Economy and Commerce of the Kyrgyz Republic (MEC KR)

**Minister:** Mr. Daniyar Amangeldiev Dzholdoshevich

**Address:** 106 Chui Avenue, 720002 Bishkek, Kyrgyz Republic

**Phone:** +996 312 62 05 35 add. 266 – general dept.  
+996 312 62 41 73 – reception  
+996 312 62 05 35 add. 333 – helpline

**Fax:** +996 312 66 18 37

**Email:** [mail@mineconom.gov.kg](mailto:mail@mineconom.gov.kg)

**Web:** <http://mineconom.gov.kg>

**Major activities are as follows:**

- development and implementation of State Policy on Ensuring Unity of Measurements;
- creation and maintenance of an integrated technical regulation information system in the Kyrgyz Republic;
- ensuring the uniformity of measurements in the Kyrgyz Republic in accordance with international norms and rules;
- coordination of the Center for Standardization and Metrology;
- determination of units allowed for use;
- determination of the procedure for the development and approval of documents on ensuring the uniformity of measurements.

**Center for Standardization and Metrology under the Ministry of Economy and Commerce of the Kyrgyz Republic (KYRGYZSTANDART)**

**Director:** Mr. Nurmatov Bolotbek Asanovich

**Address:** 197 Panfilov Str., 720040 Bishkek, Kyrgyz Republic

**Phone :** +996 312 62 37 90

**Fax:** +996 312 66 13 67

**Email:** [nism@nism.gov.kg](mailto:nism@nism.gov.kg)

**The basic activities include:**

- carrying out work to ensure the compliance of the measurement system with the International System of Units (SI) to strengthen the role of measurements and standards in the development of the republic's economy;
- storage and improvement of national standards of units, reproduction and transfer of dimensions of basic and derived units of the International System of Units (SI);
- provision of metrological services to business entities for calibration, verification, type approval of measuring instruments, certification of measurement procedures;
- approval of reference materials;
- maintaining the state register of measuring instruments and reference materials;
- carrying out work on the recognition of the results of metrological works in accordance with the international agreements entered into force in accordance with the procedure established by law, to which the Kyrgyz Republic is a party;
- participation in the comparison of standards at the international, regional and national levels to ensure the international recognition of national standards and calibration and measurement certificates;
- participation in the work of granting and revoking the right to conduct testing of measuring instruments or certification of reference materials for the purpose of type approval or calibration of measuring instruments;
- implementation of research works in the field of metrology;
- the exchange of information in the field of ensuring the uniformity of measurements with international metrological organizations and national metrology bodies of other countries.

**International cooperation of KYRGYZSTANDART in the field of metrology is carried out in the framework of:**

- International Organization for Legal Metrology (OIML)
- Interstate Council for Standardization, Metrology and Certification (EASC);
- Interregional Association for Standardization (ISO);
- Euro-Asian cooperation of national metrological institutions (COOMET).

The structure of the state metrological service also includes 10 regional metrological centers.

**Department of Metrological Supervision of the State Agency of Antimonopoly Regulation under the Ministry of Economy and Commerce of the Kyrgyz Republic**

**Head of Department: Mrs. Akhmedzhanova Ainura**

**Address:** B.Baatyra Str., 7B/1, 720002, Bishkek, Kyrgyz Republic

**Phone:** +996 312 56 33 03 / +996 312 56 31 97

**Email:** [priemnaya@antimonopolia.kg](mailto:priemnaya@antimonopolia.kg)

**Main activities:**

- this organization is responsible of the release, condition and application of measuring instruments, including reference materials of the composition and properties of substances (materials), compliance with the requirements of regulatory legal acts in the field of ensuring the uniformity of measurements, in the field of state regulation, in accordance with the Law of the Kyrgyz Republic "On ensuring the uniformity of measurements";
- in case of revealing violations of the requirements of regulatory legal acts in the field of ensuring the uniformity of measurements:
  - in the prescribed manner shall issue instructions on the elimination of violations identified during the inspection and shall set a time limit for their elimination;
  - according to the results of the inspection, takes measures to eliminate the consequences of violations of the requirements of regulatory legal acts in the field of ensuring the uniformity of measurements;
  - in the cases stipulated by the regulatory legal acts of the Kyrgyz Republic, sends materials on violation of metrological rules and regulations to judicial and investigative bodies;
- oversees the correctness of the state register of measuring instruments and reference materials;
- makes to the ministries, departments and local governments proposals for the elimination of violations revealed during the inspection and improvement of the metrological provision of subordinated objects.
- supervises the requirements of the rules of manufacture of the State Flag of the Kyrgyz Republic and the State Emblem of the Kyrgyz Republic.

**3. National measurement standards**

[www.nism.gov.kg](http://www.nism.gov.kg)

**4. Status of participation in the Metre Convention**

The Republic of Kyrgyzstan is currently not a signatory to the CIPM MRA or an associate member of the CGPM, nor is it entitled to use the CIPM MRA logo.

## **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

Accreditation in the German body DAkkS ILAC MRA.

Accreditation certificate D-K-20448-01-00 (according to ISO/IEC 17025: 2017).

## **6. State CMC data**

-

## **7. OIML membership status**

OIML Corresponding member.



# LITHUANIA

*up-to-date country information has not been submitted to th99e COOMET Secretariat in 2022*

COOMET MoU year of signing:	4 April 1995
Area:	65,200 km <sup>2</sup>
Population:	3 million

## 1. Law on metrology

Law on Metrology of the Republic of Lithuania, the new version issued from 12 January 2018, No. XIII-982.

## 2. Metrological infrastructure

- The Ministry of Economy and Innovation of the Republic of Lithuania (<http://eimin.lrv.lt/en/>).  
The Ministry according to the Law on Metrology, is responsible for the formation of metrology policy, coordination of uniformity of measurements in Lithuania, implementation of legal metrological regulations, as well as for exchange of information on notification of bodies with other EU member states.
- State Research Institute Centre for Physical Sciences and Technology (FTMC) – NMI of Lithuania (<https://www.ftmc.lt/en/>).
- Lithuanian Energy Institute – Designated Institute for national standards (<http://www.lei.lt>).
- Lithuanian Metrology Inspectorate (legal metrology) (<http://www.metrinsp.lt/2/>).  
Performs the tasks of market surveillance for measuring instruments, which are under the metrological control, for prepackaged goods and measuring containers, also for quantity of weighted, counted, measured and dosed products.
- verification and calibration of measuring instruments and standards are performed by the stock companies and private accredited laboratories, which are appointed by the Ministry of Economy and Innovation.
- Lithuanian Standards Board (<http://www.lsd.lt/index.php?256157671>).  
Lithuanian Standards Board is the budgetary institution of public administration functioning as National Standards Body (NSB) and within its competence taking part in establishing and implementing the policy of the Government of the Republic of Lithuania within the standardization field, carrying out other functions provided by the Laws and other legal acts of the Republic of Lithuania and taking active part in the activities of international and European standardization organizations by representing interests of Lithuanian economy.
- Lithuanian National Accreditation Bureau (<http://nab.lrv.lt/en/>).  
National Accreditation Bureau (LA) is responsible for accreditation of testing, calibration laboratories, certification bodies for products, personnel, quality and environmental management systems, inspection bodies, EMAS; to assess CABs to be notified by the Governmental authorities. Also LA is designated as GLP inspection and verification authority.

## Metrology system in Lithuania

The Ministry of Economy of the Republic of Lithuania (<http://eimin.lrv.lt/en/>) was authorized by the Law on Metrology and Resolution of the Government of the Republic of Lithuania to form the policy of metrological support in Lithuania, to implement legal metrology regulations, to coordinate activities of the national metrology system, to be responsible for providing the uniformity of measurements in Lithuania. The Ministry also exchanges information on the issues of verification of measuring instruments and work of notified bodies with competent bodies of other European Union member countries.

Under the Resolution of the Government of the Republic of Lithuania from 3 September 2014 State Research Institute Center for Physical Sciences and technology (FTMC) has been authorized to perform the functions of a National Metrology Institute. Functions of NMI at the Center are fulfilled by Metrology Department. In accordance with the Resolution of the Government of the Republic of Lithuania national laboratories are also authorized to create and maintain national measurement standards. In 2019 structural changes of metrology system in the Republic of Lithuania were implemented. From 2019 only one Designated Institute (DI) is authorized to create and maintain national measurement standards, it is the Lithuanian Energy Institute (LEI).

The national standards laboratories create, maintain, use and improve national standards, assure assignment of reproduced measurement quantities, maintain international traceability in the fields allocated to them and represent Lithuania in the activities of international metrological organizations in the scope of their competence. According to the Resolution of the Government of the Republic of Lithuania national measurement standards for units of measurement shall be created in view of the need and economical capabilities of the Republic of Lithuania and in compliance with the requirements of the Resolution.

Verification of measuring instruments is performed by institutions, metrology centres, individual accredited laboratories for certain types of measurements, which are appointed and authorized to verify such kind of measuring instruments by the Ministry of Economy of the Republic of Lithuania.

The Lithuanian Metrology Inspectorate (<http://www.metrinsp.lt/2/>) was established according to the Law on Metrology. The Inspectorate carries out metrological supervision of measuring instruments, subject to legal metrology regulation, prepackages and volume of measuring containers, as well as of quantity of weighted, counted, measured and dosed products, maintains the register of types of measuring instruments.

At Kaunas University of Technology the Institute of Metrology KTU MI (<http://en.ktu.edu/>) was established, tasks of which include training of specialists in metrology, as well as carrying out scientific research in the field of metrology.

There is a Technical Committee "Metrology" within the Lithuanian Standards Board. It's main responsibility is to draft written standards in the metrology field.

## **National Metrology Institute of Lithuania**

Under the Resolution of the Government of the Republic of Lithuania State Research Institute Center for Physical Sciences and Technology (FTMC) is authorized to represent the NMI of Lithuania in international organizations CGPM, EURAMET and COOMET.

FTMC, as the National Metrology Institute, renewed in 2014 signing of CIPM MRA.

### **State Research Institute Center for Physical Sciences and Technology (FTMC)**

**Director: Dr. Gintaras Valušis**

**Address:** Savanorių avenue 231, LT-02300 Vilnius, Lithuania

**Phone:** +370 5 264 9211

**Fax:** +370 5 260 2317

**Email:** [metrology@ftmc.lt](mailto:metrology@ftmc.lt)

**Web:** [www.ftmc.lt](http://www.ftmc.lt)



## **Metrology Department**

**Head of department: Dr. Evaldas Naujalis**

**Address:** Lukiškių 9, LT-01108 Vilnius, Lithuania

**Phone:** +370 5 261 2758

**Fax:** +370 5 262 7123

**Email:** [evaldas.naujalis@ftmc.lt](mailto:evaldas.naujalis@ftmc.lt)

The Metrology Department of the State Research Institute for Physical Sciences and Technology (FTMC) performs the functions of the Lithuanian NMI.

The Metrology Department of FTMC stores primary measurement standards of time and frequency, temperature, electrical units, length, mass, metrology in chemistry and ionizing radiation (radioactivity).

Field of activity of the FTMC Metrology Department:

- performance of NMI functions;
- participation as a representative of Lithuanian NMI in the work of international organizations (CGPM, EURAMET and COOMET);
- reproduction and transmission of SI units for measuring time and frequency, temperature, electrical units, ionizing radiation, and metrological methods of chemistry, mass and length;
- research and development of national measurement standards;
- transfer of reference values of measurement units and chemical and metrological methods to metrological services and laboratories;
- development of measurement methods and calibration procedures;
- training and consultations on metrology;
- participation in the research work of the Center;
- cooperation with NMIs of other countries.

## **Lithuanian Energy Institute (LEI) – Designated Institute**

**Director:** Sigitas Rimkevičius

**Address:** Breslaujos str. 3, LT-44403 Kaunas, Lithuania

**Phone:** +370 37 401 924

**Email:** [Sigitas.Rimkevicius@lei.lt](mailto:Sigitas.Rimkevicius@lei.lt)

**Web:** <http://www.lei.lt>

### **3. National measurement standards**

1. FTMC has 7 national measurement standards (<https://www.ftmc.lt/en/>).

Area: Time and frequency, Temperature, Electricity, Metrology in chemistry, Ionizing radiation (radioactivity), Mass, Length.

2. LEI has 5 national measurement standards (<http://www.lei.lt/main>).

Area: Flow measurement, Pressure.

#### **4. Status of participation in the Metre Convention**

Member of the Metre Convention since 2015.

Signatory of the CIPM MRA:

Former VMT (April 12, 2001):

Re-signed by FTMC (November 17, 2014).

Designated Institute:

- LEI (has the right to use the CIPM MRA since February 11, 2015)

<https://www.bipm.org/en/about-us/member-states/lt/>

#### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

Lithuania receives its NMI QMS recognition within EURAMET.

#### **6. State CMC data**

Lithuania publishes its CMC data within EURAMET.

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=Lithuania>

#### **7. OIML membership status**

OIML Correspondent member.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=124&CountryName=LITHUANIA&iso=LT&M=2](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=124&CountryName=LITHUANIA&iso=LT&M=2)



# MOLDOVA

<b>COOMET MoU year of signing:</b>	24 April 1997
<b>Area:</b>	33,700 km <sup>2</sup>
<b>Population:</b>	3.567 million

## 1. Law on metrology

Metrology Law No. 19 adopted in the Republic of Moldova on the 4<sup>th</sup> of March 2016.

## 2. Metrological infrastructure

According to the Law on metrology No. 19, adopted in the Republic of Moldova on the 4<sup>th</sup> of March 2016, the authority responsible for the implementation of the policy in the field of metrology is the **Ministry of Economy (Quality Infrastructure and Market Surveillance Department)** that is the **Central Metrology Authority**.

In the field of metrology, the ministry is complying with the provisions of the Law on metrology, enactments of the President of the Republic of Moldova, dispositions, orders, ordinances of the Government of the Republic of Moldova, international agreements and conventions signed by the Republic of Moldova.

The infrastructure of national system of metrology includes:

- Central Metrology Authority (CMA) – central public administration body under the Government, responsible for the quality infrastructure - the Ministry of Economy;
- Public Institution National Institute of Metrology (INM-MD);
- National Measurement Standards Database;
- National Technical Council on Metrology;
- Agency for Consumer's Protection and Market Surveillance;
- Metrological departments of legal entities.

The **Ministry of Economy** has the following attributions:

- development and coordination of the implementation of the state policy in the field of metrology;
- development of relevant legislation and participation in the development and approval of normative acts drafts for the purpose of assurance of measurement results traceability to the International System of Units (SI system);
- approval of legal metrology regulations within its competence;
- maintenance of National Registers of the National System of Metrology (national measurement standards, legal metrology regulations and authorized entities);
- coordination of metrological activity of the central public administration branch bodies, both legal entities and individuals that perform activities in the field of metrology;
- representation of the Republic of Moldova in regional and international organizations of metrology together with the National Institute for Metrology;
- designation of legal entities for verification of legal measuring instruments and for performing official measurements on the basis of certificate of accreditations issued by the national accreditation body;
- approval of training programs in the field of metrology, including training programs for experts in the field of legal metrology, technical experts in metrology and verification officers.

**The Public Institution National Institute of Metrology (INM-MD)** is a legal entity and performs its activity on the basis of regulations approved by the Central Metrology Authority and of regulations and provisions of the relevant national legislation. The National Institute for Metrology has the following attributions:

**In the field of legal metrology:**

- preparation of normative documents on legal metrology (general regulations on legal metrology, rules on legal metrology and legislative procedures for performing measurements), harmonized with international and regional practice;
- conduct of technical works in legal metrology (type approval, initial, regular and expert verifications of measurement instruments, official measurements, metrological expertise of draft normative documents etc.);
- maintenance of the State Register of measuring instruments, permitted for use in the Republic of Moldova;
- participation in the work of international and regional forums in the field of metrology in cooperation with CAM;
- making and implementation of agreements on mutual recognition of measurement standards and certificates of calibration, issued by national metrology institutes, in accordance with the requirements of the International Committee for Weights and Measures (CIPM), as well as implementation of agreements made with other countries on mutual recognition of the results of type approval and results of verification of measuring instruments, used in the areas of public interest;
- recognition of the results of metrological testing with the purpose of type approval of EU, measuring instrument verification of EU, performed in EU member states, and recognition of the corresponding certificates;
- state registration of legal entities and physical persons, carrying out activities on repair, installation and commissioning of legal measuring instruments, as well as legal entities and physical persons, manufacturing, importing and prepacking products, and legal entities, manufacturing/importing bottles, used as volumetric vessel.

**In the field of general metrology:**

- implementation of the policy in metrology at the national level;
- creation, development and maintenance of national measurement standards, keeping and transfer of legal units of measurement;
- provision of traceability of measurements results by carrying out comparisons of national measurement standards at the regional and international level, calibration of national measurement standards;
- training and upgrading of skills of specialists, performing works in the field of metrology;
- preparation and expertise of draft normative and technical documents on ensuring the uniformity of measurements, harmonized with international and national documents of other countries in terms of metrological requirements.

**State Inspectorate for non-Food Products Surveillance and Consumer Protection** was created by the Government Decision No. 466/06.06.2022., as a result of the reorganization of Main State Inspectorate for Market Surveillance, Metrology and Consumer Protection. The Agency for Consumer's Protection is a legal entity having legislative functions of metrological control and surveillance over the national internal market.

**Metrological departments of legal entities.**

The Metrological services of legal entities authorized by the national system of metrology to carry out works in the field of metrology, perform the functions of assurance of unity and accuracy of the measurements by performing verifications of legalized measurement instruments or/and official measurements.

## **Ministry of Economy of the Republic of Moldova - Central Authority of Metrology**

### **State Secretary: Mr. Vadim GUMENE**

**Address:** 1, Piata Marii Adunari Nationale str. MD-2033, Chisinau, Republic of Moldova

**Phone:** + 373 22 250 591

**Email:** [vadim.gumene@me.gov.md](mailto:vadim.gumene@me.gov.md)

### **Head of the Quality Infrastructure and Market Surveillance Department: Mr. Grigore CATER**

**Address:** 1, Piata Marii Adunari Nationale str. MD-2033, Chisinau, Republic of Moldova

**Phone:** +373 22 250 645

**Email:** [grigore.cater@me.gov.md](mailto:grigore.cater@me.gov.md)

## **Public Institution National Institute of Metrology**

### **Director: Mr. Alexei Pianih**

**Address:** 28, E. Coca str., MD 2064, Chisinau, Republic of Moldova

**Phone:** +373 22 903 101

**Fax:** +373 22 903 111

**Email:** [office@inm.gov.md](mailto:office@inm.gov.md)

## **State Inspectorate for non-Food Products Surveillance and Consumer Protection**

**Address:** 78, Vasile Alecsandri str., MD 2012, Chisinau, Republic of Moldova

**Phone:** +373 22 501 980

**Fax:** +373 22 501 981

**Email:** [consumator@apc.gov.md](mailto:consumator@apc.gov.md)

## **3. National measurement standards**

Moldova has 18 national measurement standards.

[http://www.me.gov.md/sites/default/files/lista\\_etaloanelor\\_nationale\\_15.03.2021.pdf](http://www.me.gov.md/sites/default/files/lista_etaloanelor_nationale_15.03.2021.pdf)

## **4. Status of participation in the Metre Convention**

Moldova is an associate member of the CGPM since 2007.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

Public Institution "National Institute of Metrology" (INM MD) (November 14, 2007).

(Has the right to use the CIPM MRA logo from April 22, 2016).

<https://www.bipm.org/en/about-us/associates/md/>

## **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

NIM QMS confirmation of recognition (ISO/IEC 17025): QSF-R52 until 31.01.2023.

Moldova receives its NMI QMS recognition within EURAMET (from 17.07.2019).

## **6. State CMC data**

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=moldova>

COOMET database: [http://www.coomet.org/DB/com/index.htm?RU,CMC\\_RU,RU](http://www.coomet.org/DB/com/index.htm?RU,CMC_RU,RU)

Moldova publishes its CMC data within EURAMET (from 17.07.2019).

## **7. OIML membership status**

OIML Corresponding member.

[www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=141&CountryName=MOLDOVA&iso=MD&M=2](http://www.oiml.org/en/structure/members/contactmember_view?IDCountry=141&CountryName=MOLDOVA&iso=MD&M=2)



# RUSSIA

<b>COOMET MoU year of signing:</b>	12 June 1991
<b>Area:</b>	17 125 191 km <sup>2</sup>
<b>Population:</b>	147.18 million

## 1. Law on metrology

The Federal Law of the Russian Federation on Assuring the Uniformity of Measurements No. 102-FL dated 26.06.2008 (as worded in Federal Laws No. 242-FZ of 18.07.2011, No. 347-FZ of 30.11.2011, No. 133-FZ of 28.07.2012, No. 338-FZ of 02.12.2013, No. 160-FZ of 23.06.2014, No. 254-FZ of 21.07.2014, No. 233-FZ of 13.07.2015, No. 496-FZ of December 27, 2019, which enters into force on September 24, 2020, No. 348-FZ of October 27, 2020, which enters into force on January 1, 2021, No. 429-FZ of December 8, 2020 (the article 87 of the law), which enters into force on December 8, 2020).

## 2. Metrological infrastructure

Realization of this Law, fulfilment of metrological functions and terms of reference are approved by Decrees of the President of the Russian Federation - No. 314 of 9 March, 2004 and No. 649 of 20 May, 2004 and Government Directives- No. 294 of 17 June, 2004 and No. 438 of 05 June, 2008, and are implemented by the Federal Agency on Technical Regulation and Metrology (Rosstandart) under the Federal Ministry of Industry and Energy (Minpromtorg of Russia).

2.1 Minpromtorg of Russia is a Federal Executive body responsible for the development of government policy and state regulation in the field of technical regulating, standardization and ensuring uniformity of measurements.

2.2 Rosstandart is a Federal Executive body responsible for providing government services and managing state property in the field of technical regulating, standardization and assuring the uniformity of measurements and implementation of federal state metrological supervision.

### The Federal Agency on Technical Regulating and Metrology (Rosstandart)

**Head: Mr. Anton Shalaev**

**Address:** Presnenskaya embankment, 10, building 2, 123112, Moscow, Russia

**Phone:** +7 495 547 51 55

**Email:** [pr.shalaeva@rst.gov.ru](mailto:pr.shalaeva@rst.gov.ru)

**Web:** <https://www.rst.gov.ru>

**Deputy Head: Mr. Evgeny Lazarenko**

**Address:** Presnenskaya embankment, 10, building 2, 123112, Moscow, Russia

**Phone:** +7 495 547 52 00

**Email:** [elazarenko@rst.gov.ru](mailto:elazarenko@rst.gov.ru)

**Head of Department of Metrology, State Supervision and Control: Mr. Zahar Osoka**

**Address:** Presnenskaya embankment, 10, building 2, 123112, Moscow, Russia

**Phone:** +7 495 547 52 04

**Email:** [sgosnad@rst.gov.ru](mailto:sgosnad@rst.gov.ru)

**Rosstandart directs the work of the following:**

- State Service of Time and Frequency and Determination of the Earth Rotation Parameters (SSTF);
- State Service of Reference Materials of the Composition and Properties of Substances and Materials (SSRM);
- State Service of Standard Reference Data of Physical Constants and Properties of Substances and Materials (SSSRD).

**Rosstandart organizes the maintenance** of the Federal information Fund for assuring the uniformity of measurements <https://fgis.gost.ru/fundmetrology/registry>

**Under the responsibility of Rosstandart** are national scientific metrology institutes (NMI) and state regional centers for standardization, metrology and testing.

The main objectives of NMIs are conducting fundamental and applied scientific researches, experimental developments and scientific and technical activities in the field of assuring the measurements' uniformity; development, improvement, maintenance, comparison and application of national primary measurement standards (NPMS); the transfer of units from NPMS; participation in development of draft regulatory documents in the field of assuring the measurements' uniformity, conducting mandatory metrological expertise of requirements for measurements, reference materials and measuring instruments contained in draft normative acts of the Russian Federation; creating and maintaining the Federal Information Fund for assuring the measurements' uniformity (FIF AMU) and providing documents and information from the FIF; participating in international cooperation in the field of Metrology.

**Federal State Unitary Enterprise "All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev" (VNIIM)**

**General Director:** Mr. Anton Pronin

**Address:** 19 Moscovsky Prospect, 190005 Saint-Petersburg, Russia

**Phone:** +7 812 251 76 01

**Email:** [info@vniim.ru](mailto:info@vniim.ru)

**Web:** <http://vniim.ru/>

**Federal State Unitary Enterprise "All-Russian Research Institute of Physical Technical and Radio Technical Measurements" (VNIIFTRI)**

**General Director:** Dr. Sergey Donchenko

**Address:** Mendeleevo, Solnechnogorsky District, 141570, Moscow Region, Russia

**Phone:** +7 (495) 526-63-00

**Email:** [director@vniiftri.ru](mailto:director@vniiftri.ru)

**Web:** <http://vniiftri.ru/>

**Federal State Unitary Enterprise "All-Russian Scientific Research Institute of Optical and Physical Measurements" (VNIIOFI)**

**Director:** Dr. Andrey Baturin

**Address:** 46 Ozernaya Str., 119361 Moscow, Russia

**Phone :** +7 495 437 56 33

**Email:** [vniofi@vniofi.ru](mailto:vniofi@vniofi.ru)

**Web:** <http://vniofi.ru/>



**Federal State Budgetary Institution "All-Russian Scientific Research Institute of Metrological Service" (VNIIMS)**

**Director:** Mr. Sergey Denisenko

**Address:** 46 Ozernaya Str., 119361 Moscow, Russia

**Phone:** +7 495 437 37 29

**Email:** [office@vniims.ru](mailto:office@vniims.ru)

**Web:** <http://vniims.ru/>

A good deal of activity regarding the development, improvement, maintenance and use of national measurement standards, as well as conduct of fundamental and applied research in the field of metrology including elaboration of normative documents of measurement uniformity assurance is carried out by Metrology Institutes of Rosstandart, which are the centers of standards on the fixed types and areas of measurements. The majority of these institutes is specialized in specific fields of measurements and accredited as state test centers of measuring instruments and verification centers, as bodies on voluntary certification of measuring instruments.

2.3 In the Russian Federation, in order to assure the measurements uniformity, metrological services may be established in Federal Executive bodies; in state corporations, legal entities and individual entrepreneurs engaged in the field of assuring the measurements uniformity.

State regulation is executed in the following forms:

- type approval of reference materials or type of measuring instruments;
- verification of measuring instruments;
- metrological examination;
- Federal state metrological supervision; (as amended by the Federal law of 18.07.2011 No. 242-FL)
- certification of measurement procedures;
- accreditation of legal entities and self-employed entrepreneurs to perform work and (or) render services in the field of assurance of measurement uniformity.

The state metrological supervision is carried out over:

- observance of obligatory requirements in sphere of state regulation of assurance of measurement uniformity to measurements, measurement units and also to standards, standard reference material, measuring instruments during their release from manufacture, import on territory of the Russian Federation, sale and application on territory of the Russian Federation;
- availability and observance of the certified measurement procedures.

**International cooperation in the field of metrology** is performed with the following organizations:

- International Organization of Legal Metrology (OIML);
- International Bureau of Weights and Measures (BIPM);
- Euro-Asian Cooperation of National Metrological Institutions (COOMET);
- Asia-Pacific Legal Metrology Forum (APLMF);
- Interstate Council for Standardization, Metrology and Certification (EASC);
- The Eurasian Economic Community (EAEC);
- other international and regional organizations.

Metrology institutes of the Russian Federation actively collaborate with national metrology centers of Germany, the USA, the United Kingdom, Slovakia, Japan, France, Korea, China, India, Belarus, Ukraine, etc.

The priority activities of regional centers for standardization, metrology and testing (FBU CSM), are: improvement, maintenance and use of national measurement standards used to ensure traceability; involvement in the provision of public services to ensure the uniformity of measurements in accordance with the scope of accreditation; conducting verification of measuring instruments included in the restrictive list of measuring instruments established by the Government of the Russian Federation; the transfer of measurement units from national measurement standards. At present, there are 74 FBU CSMs located in 8 Federal Districts in the Russian Federation located in 8 Federal districts.

### **3. National measurement standards**

Russia has 158 primary standards. Information on all standards of the Russian Federation, as well as their distribution by measurement areas and State metrological research institutes is available at:

<https://fgis.gost.ru/fundmt/page/site/fundmetrology/dp/ws/register#list=workspace://SpacesStore/44287589-67ec-4694-82c5-73cb14d3ecf7&currentPage=1&currentPageSize=25&>

### **4. Participation in the Metre Convention**

Member of the Metre Convention since 1875.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

Rosstandard (October 14, 1999).

Representatives of metrology institutes of the Russian Federation participate in the work of all Consultative Committees of the international Bureau of weights and measures.

#### Designated institutions:

VNIIM is a signatory of the CIPM MRA and may use the CIPM MRA logo since 13 October 2006.

VNIIFTRI is a signatory of the CIPM MRA and may use the CIPM MRA logo since 13 November 2006.

VNIIOFI is a signatory of the CIPM MRA and may use the CIPM MRA logo since 14 November 2006.

VNIIMS is a signatory of the CIPM MRA and may use the CIPM MRA logo since 07 November 2006.

The information about the participation of the Russian Federation in the CIPM MRA is available at:

<https://www.bipm.org/en/about-us/member-states/ru/cipm-mra.html>.

<https://www.bipm.org/en/about-us/member-states/ru/>

### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

VNIIM (including UNIIM – affiliated branch of the D.I.Mendeleyev Institute for Metrology and VNIIR - affiliated branch of the D.I.Mendeleyev Institute for Metrology) QMS confirmation of recognition (ISO/IEC 17025): QSF-R79 from 04.03.2021 until 04.03.2026

VNIIM (including UNIIM – affiliated branch of the D.I.Mendeleyev Institute for Metrology) QMS confirmation of recognition (ISO 17034): QSF-R80 from 04.03.2021 until 04.03.2026

VNIIOFI QMS confirmation of recognition (ISO/IEC 17025): QSF-R76 from 04.03.2021 until 04.03.2026

VNIIOFI QMS confirmation of recognition (ISO 17034): QSF-R77 from 04.03.2021 until 04.03.2026

VNIIFTRI (including branches West-Siberian (Novosibirsk) and East-Siberian (Irkutsk) QMS confirmation of recognition (ISO/IEC 17025): QSF-R78 from 04.03.2021 until 04.03.2026

## 6. State CMC data

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=russia>

COOMET database: <http://www.coomet.org/DB/com/index.htm?RU,CMC RU,RU>

## 7. OIML membership status

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=178&CountryName=RUSSIAN%20FEDERATION&iso=RU&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=178&CountryName=RUSSIAN%20FEDERATION&iso=RU&M=1)

The specialists of Russian NMIs participate in work of all OIML TCs/PCs.

Russian Federation maintains the Secretariats of the following OIML TCs/PCs:

TC 10/SC 2 "Pressure gauges with elastic sensing elements" (VNIIMS);

TC 11/SC 1 "Resistance thermometers" (VNIIM);

TC 11/SC 3 "Radiation thermometers" (VNIIM);

TC 15 "Measuring instruments for ionizing radiations" (VNIIFTRI);

TC 15/SC 1 "Measuring instruments for ionizing radiations used in medical applications " (VNIIFTRI);

TC 17 "Instruments for physico-chemical measurements" (VNIIM);

TC 17/SC 2 "Saccharimeters" (VNIIM);

TC 17/SC 3 "pH-metry" (VNIIFTRI);

TC 17/SC 4 "Conductometry" (VNIIM);

TC 17/SC 5 "Viscosimetry" (VNIIM);

TC 17/SC 6 "Gas analysis" (VNIIM);

TC 18/SC 4 "Bio-electrical instruments" (VNIIOFI);

TC 3/SC 3 "Reference materials " (VNIIM);

TC 7/SC 1 "Measuring instruments for length" (VNIIM);

TC 9/SC 4 "Densities" (VNIIM).

The information about the participation of Russian Federation in OIML TCs/PCs work is available at:

[https://www.oiml.org/en/tc-sc-pg/scinfo\\_view](https://www.oiml.org/en/tc-sc-pg/scinfo_view)



# SLOVAKIA

<b>COOMET MoU year of signing:</b>	17 March 1993
<b>Area:</b>	49,035 km <sup>2</sup>
<b>Population:</b>	5.44 million

## 1. Law on metrology

Act No 157/2018 Coll. on metrology and amending certain laws as amended.

Complete list of metrological legislation available at: <https://www.unms.sk/stranka/164/metrologicka-legislativa/>

## 2. Metrological infrastructure

**The institution responsible for national and other measurement standards and scientific metrology in Slovakia is the Slovak Institute of Metrology (SMU)**, which in accordance with the Law on Metrology is a contributory institution, responsible for the mentioned areas.

The Slovak Institute of Metrology (SMU) has been established in 1968 as the National Czechoslovak Institute of Metrology and has more than 51 years of experience. SMU fulfils tasks as the national metrology institution (NMI) for the Slovak Republic since 1<sup>st</sup> of January 1993. At the present time SMU is subsidized organization of the Slovak Office of Standards, Metrology and Testing (UNMS).

### Main tasks of SMU include:

- ensurance of implementation, preservation, development and international comparison of the national standard and unit transfer to a dedicated measurement device;
- ensurance of international recognition of specific national standard;
- representation of the Slovak Republic in international metrological organizations to which it is a member and assures the tasks that arise from this membership;
- proposals on a specific standard for its declaration as a national standard, or its change of status to a non-national standard;
- research in scientific and technical metrological fields;
- calibration of operating standards and calibration of obligatorily calibrated measurement device and other measuring instrument and performance of official measurement;
- verification of specified measuring devices, that are subject to verification;
- approval of type for specific measurement devices;
- supervision and the creation of certified reference materials within Slovakia;
- development of technical standards;
- specification of technical requirements and methods for verification of measuring instruments, subject to verification, and testing for type approval;
- performance of tests of a specified range of ionizing radiation sources based on a special license issued under a separate regulation;
- training and improvement of professional skills of employees in legal metrology, calibration centers and other employees, involved in technical measurements and metrology;
- active participation on national and international projects in the field of metrology;
- certification of employees in metrology;
- conducting specialized and technical works in the field of accreditation and certification bodies.

**General Director: Mr. Maros Kamensky, MBA**

**Address:** Karloveská 63, 842 55 Bratislava, Slovak Republic

**Phone:** +421 2 602 94 204

**Email:** [maros.kamensky@smu.gov.sk](mailto:maros.kamensky@smu.gov.sk)

**Web:** <http://www.smu.sk/>

**The institutions responsible for legal metrology are:**

**Slovak Office of Standards, Metrology and Testing (UNMS)**

It is the central steering body of the state administration in the field of metrology, standardisation and testing.

The main tasks and activities of the UNMS in the field of metrology are:

- elaborates the concept of state policy in the field of metrology and ensures its realization;
- prepares legislation and legal rules (acts and decrees) referring to legal metrology;
- represents the Slovak Republic in international metrological organizations, ensures the tasks emerging from this membership and co-ordinates the participation of bodies, legal entities and physical persons in the fulfillment of these tasks as well as of tasks arising from international agreements in the field of metrology, by which the Slovak Republic is bound;
- steering of metrology in the state in the scope given by the Act on Metrology, including subordinate metrology institutions (Slovak Institute of Metrology (SMU), Technical Testing Institute (TSU), Slovak Legal Metrology (SLM), Slovak National Accreditation Service (SNAS) and Slovak Metrology Inspectorate (SMI));
- declares national standards, changes the declaration of national standards and cancels the declaration of national standards;
- determines the kinds of legally controlled measuring instruments, technical requirements and metrological requirements for individual kinds of legally controlled measuring instruments and the methods for their metrological control;
- methodical supervision of metrological activities.

**President of UNMS: Mrs. Katarina Surmikova Tatranska**

**Address:** Štefanovičova 3, P.O. Box 76, 810 05 Bratislava 15, Slovak Republic

**Phone:** +421 2 57 485 212

**Email:** [predseda@normoff.gov.sk](mailto:predseda@normoff.gov.sk)

**Web:** <http://www.unms.sk/>

**Div. of Metrology: Mr. Jaroslav Boris**

**Phone:** +421 2 20 907 270

**Email:** [jaroslav.boris@normoff.gov.sk](mailto:jaroslav.boris@normoff.gov.sk)

**Slovak Legal Metrology (SLM)**, non-profit organisation, the SLM is charged with the following main activities:

- research and development in the field of metrology and their application in praxis;
- verification of legally controlled measuring instruments;
- calibration of reference and working standards for industry and laboratories;
- calibration of ordinary measuring instruments for customers;
- carrying out of pattern evaluation of measuring instruments;

- organization of proficiency testing of laboratories (interlaboratory comparison measurements);
- testing of measuring instruments and standards;
- conformity assessment of measuring instruments according to the European Directive 2014/31/EU (NAWID) and 2014/32/EU (MID);
- conformity assessment of measuring instruments in the frame of OIML-CS certification system;
- international cooperation in the metrology area (WELMEC, NOBOMET, OIML);
- consulting.

**General Director: Mr. Peter Vook**

**Address:** Hviezdoslavova 31, 974 01 Banská Bystrica, Slovak Republic

**Phone:** +421 48 4719122

**Email:** [slm@slm.sk](mailto:slm@slm.sk)

**Web:** <http://www.slm.sk/>

**Slovak Metrology Inspectorate (SMI)** – a subordinate institution of the UNMS.

Its main task is to perform the state metrology supervision over the compliance with the Law on Metrology and Decrees and supervision over measuring instruments and measurements in the Slovak Republic.

**Director:** **Mr. Peter Kadlec**

**Address:** Karloveská 63, 841 04 Bratislava, Slovak Republic

**Phone:** +421 2 /4020 36 70

**Email:** [smi@smi.sk](mailto:smi@smi.sk)

**Web:** <http://www.smi.sk/>

Other institutions in the field of legal metrology are authorised bodies. These institutions are authorised by the UNMS for verification of specified types of legally controlled measuring instruments.

**Organizations, responsible for calibration service**

Calibration of operating instruments is mainly carried out by individual calibration laboratories, located at factories and other organizations. Some of these laboratories are accredited by the Slovak National Accreditation Service (SNAS) in accordance with ISO/IEC 17025. SMU and SLM also provide services on calibration of measuring instruments.

**Slovak National Accreditation Service (SNAS)**

**Director:** **Mr. Martin Sencak**

**Address:** Karloveská 63, 841 00 Bratislava, Slovak Republic

**Contact person:** **Mr. Jaromir Durny**

**Phone:** +421 940 982 185

**Email:** [snas@snas.sk](mailto:snas@snas.sk), [jaromir.durny@snas.sk](mailto:jaromir.durny@snas.sk)

**Web:** <http://www.snas.sk/>

**3. National measurement standards**

Slovakia has 25 primary standards. Information on all standards of Slovakia, as well as their distribution by measurement areas is available at: <https://www.smu.sk/narodne-etalon/>

#### **4. Status of participation in the Metre Convention**

Member of the Metre Convention since 1922.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

Slovak Metrology Institute (SMU) (October 19, 1999).

(Has the right to use the CIPM MRA logo from March 13, 2007)

SMU has representatives in 5 BIPM Consultative Committees.

<https://www.bipm.org/en/about-us/member-states/sk/>

#### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

Slovakia receives its NMI QMS recognition within EURAMET.

#### **6. State CMC data**

Slovakia publishes its CMC data within EURAMET.

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=slovakia>

#### **7. OIML membership status**

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=193&CountryName=SLOVAKIA&iso=SK&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=193&CountryName=SLOVAKIA&iso=SK&M=1)



# TAJIKISTAN

**COOMET MoU year of signing:** 18 November 2009

**Area:** 143,100 km<sup>2</sup>

**Population:** 9 million

## 1. Law on metrology

Law of Republic of Tajikistan "About maintenance of unity of measurements".

## 2. Metrological infrastructure

Legal basis of maintenance of unity of measurements and the state metrological system is Constitution of Republic of Tajikistan, Law of Republic of Tajikistan "About maintenance of unity of measurements" No. 435 from May, 15<sup>th</sup>, 1997 (changes and additions No. 321 from July, 30<sup>th</sup>, 2007, No. 467 from December, 31<sup>st</sup>, 2008), and also other regulatory legal acts of Republic of Tajikistan.

The metrological service of Republic of Tajikistan consists of the State metrological service and metrological services of legal bodies.

**The state metrological service is headed by Agency Tajikstandard** and includes bodies of the State metrological service in Gorno-Badakhshansky autonomous region, republic areas, areas of republican submission and a city of Dushanbe.

The structure of the State metrological service includes 14 regional centers of Tajikstandard.

Activity on maintenance of functioning and development of the State metrological system is carried out by **Agency on Standardization, Metrology, Certification and Trade Inspection under the Government of the Republic of Tajikistan (Tajikstandard)**.

**Director:** Mr. Tamurjon Nazurullo ABDULVAKHOBZODA

**Address:** N. Karabaev Str., 42/2, 734018 Dushanbe, Tajikistan

**Phone:** +992 37 233 68 69

**Fax:** +992 37 233 44 99

**Email:** [info@standard.tj](mailto:info@standard.tj)

**Web:** [www.standard.tj](http://www.standard.tj)

**Deputy Director – COOMET Committee Member:** Mr. Mansur Hudzhavali SAFARZODA

**Address:** N. Karabaev Str., 42/2, 734018 Dushanbe, Tajikistan

**Phone:** +992 37 233 61 75

**Fax:** +992 37 233 44 99

**Email:** [info@standard.tj](mailto:info@standard.tj)

**Web:** [www.standard.tj](http://www.standard.tj)

**Head of Metrology Department:** Mr. Jurakhon Rahmoil RAKHIMZODA

**Address:** N. Karabaev Str., 42/2, 734018 Dushanbe, Tajikistan

**Phone:** +992 37 233 68 86



**Fax:** +992 37 233 44 99  
**Email:** [coomet-tj@standard.tj](mailto:coomet-tj@standard.tj)  
**Web:** [www.standard.tj](http://www.standard.tj)

**The competence of Tajikstandard concern:**

- the organization of carrying out of basic researches in the field of metrology;
- the organization of creation and functioning of reference base;
- definition of the general metrological requirements to means of measuring techniques, methods and results of measurements;
- the statement of types of measuring instruments;
- definition of the general requirements concerning an order of carrying out of calibration and metrological certification of means of measuring techniques, working out of statutory acts, programs etc.;
- inter-regional and inter-branch coordination of activity on maintenance of unity of measurements;
- establishment of rules of creation, the statement, storage and application of the state standards of units of quantities;
- definition of the general metrological requirements to means, methods and results of measurements;
- realization of the state metrological control and supervision;
- a management of activity of the state metrological service and other metrological services of maintenance of unity of measurements;
- participation in activity of the international metrological organizations.

**The international cooperation of Tajikstandard in the field of metrology is carried out in frameworks:**

- Interstate Council for Standardization, Metrology and Certification (EASC);
- Euro-Asian Cooperation of National Metrological Institutions (COOMET).

**3. National measurement standards**

There are about 70 initial and exemplary measuring instruments in the laboratories of Tajikistan, which are considered national standards of the republic.

**4. Status of participation in the Metre Convention**

Tajikistan is not currently a signatory to the CIPM MRA or an associate member of the CGPM, and it is not entitled to use the CIPM MRA logo.

**5. Confirmations of recognition of QMS of NMIs (within COOMET)**

-

**6. State CMC data**

-

**7. OIML membership status**

-



# TURKEY

<b>COOMET MoU year of signing:</b>	16 April 2014 (associate member)
<b>Area:</b>	783,100 km <sup>2</sup>
<b>Population:</b>	84.7 million

## 1. Law on metrology

Law No. 3516 on Measures and Calibrations (1989).

## 2. Metrological infrastructure

**TÜBİTAK Ulusal Metroloji Enstitüsü (TÜBİTAK UME)**, as the National Metrology Institute of Turkey, is responsible for the establishment and maintenance of national measurement standards as well as research and development activities in scientific metrology in Turkey.

TÜBİTAK UME is a research and development institute that operates under the umbrella of the Scientific and Technological Research Council of Turkey (TÜBİTAK), which is an affiliated institution of the Ministry of Industry and Technology.

The institute aims to ensure the reliability of all measurements conducted in Turkey, to make provisions for the integration of these measurements into the international system and to develop existing and new measurement technologies, thereby establishing the national measurement system required for ensuring the accuracy of measurements used in commercial and industrial settings and which contributes to equity in national and international trade, increases in the quality of Turkish industrial products and enhances Turkey's scientific and technological development.

**Director of TÜBİTAK UME: Dr. Mustafa Çetintas**

**Address:** TÜBİTAK Gebze Yerleskesi Baris Mah., Dr. Zeki Acar Cad. No. 1, 41470 Gebze Kocaeli, Turkey  
**Phone:** +90 262 679 5000  
**Fax:** +90 262 679 5001  
**Email:** [mustafa.cetintas@tubitak.gov.tr](mailto:mustafa.cetintas@tubitak.gov.tr)  
**Web:** [www.ume.tubitak.gov.tr](http://www.ume.tubitak.gov.tr)

**The main activities of TÜBİTAK UME can be summarized as follows:**

- to establish and maintain national measurements standards in accordance with the SI Units.
- to ensure the traceability of national measurement standards to international standards and to disseminate traceability nationally through the provision of calibration services
- to support the other elements of the national measurement system through the provision of training, consultancy services, publications and other mechanisms and the organization of interlaboratory comparisons and proficiency testing programmes.
- to produce and distribute certified reference materials to ensure the traceability of chemical measurements in Turkey.
- to contribute to research and development in the areas of measurement techniques, calibration and measurement technologies at the international level.
- to represent Turkey at an international level in the field of metrology and to cooperate with international organizations and other national metrology institutes in order to fulfill the requirements of the Metre Convention and the CIPM Mutual Recognition Arrangement (CIPM MRA).

Under the terms of the CIPM Mutual Recognition Arrangement, TÜBİTAK UME has designated the Turkish Atomic Energy Authority (TAEK) to carry out the responsibility for establishing measurement standards and scientific metrology activities in the area of Ionizing Radiation. The designation of TAEK was made in 2007. Structural reorganisation related to the status of TAEK occurred in 2020. The new legal entity named Turkish Energy, Nuclear and Mineral Research Agency (TENMAK) tied to the Ministry of Energy and Natural Resources, related to energy, nuclear energy, ionizing radiation and mineral sources like boron and rare earth elements was established by the decree of the President of Turkish Republic (Decree 57 dated 28 March 2020). TAEK renamed as Nuclear Energy Research Institute (NÜKEN) operates under the auspices of TENMAK and inherits all responsibilities of former TAEK. Similarly, the Marmara Research Center, Materials Institute - Underwater Acoustics Laboratory (MRC MI-UAL) has been designated in the area of underwater acoustics in 2012.

**The General Directorate for Metrology and Safety of Industrial Products (GDMSIP)** under the Ministry of Industry and Technology (MIT) is the authority for legal metrology in Turkey.

Duties of the General Directorate for Metrology and Safety of Industrial Products were specified in the Decree Law on the Organization and Duties of the Ministry of Industry and Technology published in the Official Gazette No. 30473 dated 09.07.2018. The general framework for legal metrology activities is provided by the Law No. 3516 on Measures and Calibrations that went into effect on 21.01.1989 and Law No. 4703 on Preparation and Implementation of Technical Legislation Regarding Products dated 29.06.2001.

GDMSIP operates 7 regional metrology laboratories and 81 provincial verification bureaus. It is responsible for setting policy in the areas of legal metrology and standardization, specifying and applying mandatory standards and technical regulations in legal metrology and pre-packaging, conducting market surveillance and controls, designating and maintaining oversight of conformity assessment bodies and notified bodies in accordance with EU directives, control of measurement instruments used in trade, and the operation and supervision of public and private legal metrology laboratories. The practice of legal metrology in Turkey has undergone significant change in recent years as technical regulations have been harmonized with the EU within the scope of the ongoing membership negotiations with Turkey. Within this context, the GDMSIP has been responsible for the implementation of the Non-Automatic Weighing Instruments and Measurement Instruments Directives (NAWI and MID) of the EU.

**Acting General Director of GDMSIP: Mr. Mehmet BOZDEMİR**

**Address:** Ministry of Industry and Technology, Mustafa Kemal Mah., Dumlupınar Bulvarı 2151. Cadde No. 154, 06510 Cankaya Ankara, Turkey

**Phone:** +90 444 61 00

**Fax:** +90 312 231 1694

**Email:** [info@sanayi.gov.tr](mailto:info@sanayi.gov.tr)

### **3. National measurement standards**

TÜBİTAK UME maintains 138 primary level national measurement standards.

<http://www.ume.tubitak.gov.tr/>

### **4. Status of participation in the Metre Convention**

Member of the Metre Convention since 1875.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

TÜBİTAK UME (October 14, 1999)

(Has the right to use the CIPM MRA logo from October 19, 2006)

TÜBİTAK UME is a full member and has representatives in 8 CIPM Consultative Committees.

<https://www.bipm.org/en/countries/tr>

#### **5. Confirmations of recognition of QMS of NMIs (within COOMET)**

Turkey receives its QMS recognition within EURAMET.

TÜBİTAK UME and Turkish Designated Institutes present their QMS within EURAMET TC-Quality. The latest confirmation of recognition for TÜBİTAK UME and TENMAK-NÜKEN (formerly TAEK) was received in 2019.

#### **6. State CMC data**

Turkey publishes its CMC data within EURAMET.

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=turkey>

#### **7. OIML membership status**

OIML Member state.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=217&CountryName=TURKEY&iso=TR&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=217&CountryName=TURKEY&iso=TR&M=1)



# UKRAINE

**COOMET MoU year of signing:** 2 June 1992

**Area:** 603,700 km<sup>2</sup>

**Population:** 42.4 million

## 1. Law on metrology

The Law of Ukraine No. 1314-VII from 5 June 2014 "On Metrology and Metrological Activity".

## 2. Metrological infrastructure

The legislative framework of the metrology system of Ukraine is the Law "On Metrology and Metrological Activity".

The metrology system of Ukraine includes:

- National Metrology Service;
- legal and regulatory framework, including legislative acts, technical regulations and other legal and regulatory acts that govern the relations in the field of metrology and metrological activity;
- National Standards Base and the system of transferring the sizes of the units of measurement;
- system of voluntary accreditation of calibration laboratories, as well as the system of accreditation of testing laboratories and conformity assessment bodies;
- educational institutions, scientific and research institutions and organizations that disseminate knowledge and experience in the field of metrology and metrological activity.

### The National Metrology Service includes:

- central executive body that ensures the formation of the state policy in the field of metrology and metrological activity;
- central executive body that realizes the state policy in the field of metrology and metrological activity;
- central executive body that realizes the state policy in the field of metrological supervision;
- scientific metrology centres;
- state enterprises in the field of the Ministry for Development of Economy, Trade and Agriculture of Ukraine – metrology centers;
- State Service of Universal Time and Reference Frequencies;
- State Service of Reference Materials of Composition and Properties of Substances and Materials;
- State Service of Reference Data on Physical Constants and Properties of Substances and Materials;
- metrology services of the central executive bodies, other state bodies, enterprises and organizations;
- bodies of conformity assessment of measuring instruments and verification laboratories.

All the activities on ensuring the functioning and development of metrology system are coordinated by the **Ministry of Economy of Ukraine**.

**Minister:** Mrs. Yuliia Svyrydenko

**Address:** 12/2 Grushevskogo Str., Kyiv, 01008, Ukraine

**Phone:** +38 044 528 92 27

**Fax:** +38 044 528 90 14

**Email:** [meconomy@me.gov.ua](mailto:meconomy@me.gov.ua)

**Web:** [www.me.gov.ua](http://www.me.gov.ua)

One of the activities of the Ministry of Economy of Ukraine is to provide the development and realization of the state policy in the field of technical regulation (standardization, metrology, certification, conformity assessment (confirmation), accreditation of conformity assessment bodies, quality management), including:

- provision of statutory regulation in the field of metrology and metrological activity;
- organization of conducting the fundamental researches in the field of metrology;
- provision of maintenance and improvement of the National Standards Base;
- development or participation in the development of the state scientific and scientific-technical programs related to ensuring the uniformity of measurements;
- representation and participation of Ukraine in the activities of international, European and other regional metrology organizations;
- exercising of other powers established by the laws and imposed on it by the acts of the Cabinet of Ministers of Ukraine.

## SCIENTIFIC METROLOGY CENTRES

### National Scientific Centre "Institute of Metrology" (NSC "IM")

**General Director: Prof. Pavel Neyezhmakov**

**Address:** 42 Mironositskaya Str., Kharkiv-2, 61002, Ukraine

**Phone:** +38 057 700 34 09

**Fax:** +38 057 700 34 47

**Email:** [info@metrology.kharkov.ua](mailto:info@metrology.kharkov.ua)

**Web:** <http://www.metrology.kharkov.ua/>

NSC "Institute of Metrology":

- carries out the fundamental scientific and applied scientific researches in the field of metrology;
- participates in the development of state programs on metrology, concepts of these programs and the concept of development of metrology system in Ukraine;
- carries out the research and development works related to the creation, improvement, maintenance, comparison, use of the national standards, the establishment of the systems of transferring the sizes of the units of measurements (providing metrological traceability with account for the needs of the national economy and international experience);
- participates in the drafting of technical regulations of other legal and regulatory acts, as well as the normative documents in the field of metrology and metrological activity;
- performs functions of the Head Center of the Service of Universal Time and Reference Frequencies;
- performs functions of the scientific and methodological center of the Service of Reference Materials of Composition and Properties of Substances and Materials;
- coordinates the scientific and metrological activity related to the measurements and calculations of time in the territory of Ukraine;
- provides intersectional coordination and scientific-methodological support on works on the development and use of reference materials of composition and properties of substances and materials;
- performs the works on conformity assessment of legally regulated measuring instruments to the technical regulations in case of its appointment as a conformity assessment body;
- carries out the verification of legally regulated measuring instruments in operation according to the respective types and subtypes of measurements, which have internationally recognized calibration and measurement

capabilities, and/or with the use of national standards, provided the empowerment to carry out the verification of the relevant measuring instruments;

- maintains and uses the national standards of the units of physical quantities in the types and subtypes of measurements assigned to it;
- carries out the calibrations of measuring instruments used in and/or out of the field of legally regulated metrology;
- carries out the measurements in the field of legally regulated metrology;
- develops measurement, verification and calibration techniques;
- provides the management of the information fund of national standards and reference materials appropriate for use in verification of legally regulated measuring instruments;
- provides cooperation with the international metrology organizations;
- ensures the activity of the national secretariats of international, intergovernmental and regional metrology organizations: CGPM, EASC, COOMET, EURAMET.

**The State Enterprise "All-Ukrainian State Research and Production Center for Standardization, Metrology, Certification and Consumers' Rights Protection" (SE "Ukrmetrteststandart")**

**General Director: Mr. Dmitry Sabatovich**

**Address:** 4 Metrologichna Str., Kyiv, 03680, Ukraine

**Phone:** +38 044 526 52 29

**Fax:** +38 044 526 42 60

**Email:** [ukrcsm@ukrcsm.kiev.ua](mailto:ukrcsm@ukrcsm.kiev.ua)

**Web:** <http://www.ukrcsm.kiev.ua>

SE "Ukrmetrteststandart":

- performs the coordination functions and methodical management of metrology service;
- is the scientific and methodological center of the Service of Reference Data on Physical Constants and Properties of Substances and Materials;
- provides the management of the register of approved types of measuring instruments of Ukraine;
- participates in the development of state programs on metrology, concepts of these programs and the concept of development of metrology system in Ukraine;
- carries out the research and development works directed on the creation, improvement, maintenance, comparison, use of the national standards, the establishment of the systems of transferring the sizes of the of units of measurements (providing metrological traceability with account for the needs of the national economy and international experience);
- participates in the drafting of technical regulations of other legal and regulatory acts, as well as the normative documents in the field of metrology and metrological activity;
- performs the works on conformity assessment of legally regulated measuring instruments to the technical regulations as a conformity assessment body;
- carries out the verification of legally regulated measuring instruments in operation;
- maintains and uses the national standards of the units of physical quantities in the types and subtypes of measurements assigned to it;
- carries out the calibrations of measuring instruments used in and/or out of the field of legally regulated metrology;

- carries out the measurements in the field of legally regulated metrology;
- develops measurement, verification and calibration techniques;
- provides cooperation with the international metrology organizations;
- ensures the activity of the national secretariat of International Organizations of Legal Metrology OIML.

**The State Enterprise "Scientific-Research Institute for Metrology of Measurement and Control Systems" (DP NDI "Systema")**

**Director:** Dr. Vasiliy Parakuda

**Address:** 6 Kryvonosa Str., Lviv, 79008, Ukraine

**Phone:** +38 032 239 92 00

**Fax:** +38 032 235 84 49

**Email:** [institute.systema@gmail.com](mailto:institute.systema@gmail.com), [office@dndi-systema.lviv.ua](mailto:office@dndi-systema.lviv.ua)

**Web:** <https://www.dndi-systema.lviv.ua/>

DP NDI "Systema":

- carries out fundamental and applied scientific research in the field of acoustical, hydroacoustical and ultrasonic measurements;
- coordinates and provides scientific and methodological support aimed at ensuring the unity and traceability of measurements in the field of acoustics and ultrasound in Ukraine;
- coordinates the scientific and metrological activities relating to metrological support of measurement and control systems;
- serves as the secretariat of the National Technical Committee for Standardization in the field of quality management;
- participates in the drafting of technical regulations of other legal acts and normative documents in the field of metrology and metrological activity;
- performs conformity assessment of legally regulated measuring instruments to the technical regulations;
- carries out research and development works related to the creation, improvement, maintenance, comparison and use of national measurement standards of Ukraine;
- carries out verification of legally regulated measuring instruments for the assigned types and subtypes of measurements using the national standards;
- carries out calibration of measuring instruments used in the field of legally regulated metrology or outside it;
- cooperates with international metrological organizations.

**The STATE ENTERPRISE "IVANO-FRANKIVSK SCIENTIFIC AND PRODUCTION CENTER FOR STANDARDIZATION, METROLOGY AND CERTIFICATION" (SE "IVANO-FRANKIVSKSTANDARTMETROLOGY")**

**General Director:** Mr. Oleh Korzhak

**Address:** 127, Vovchynetska Str., Ivano-Frankivsk, 76006, Ukraine

**Phone:** +38 03425 3 56 17

**Fax:** +38 03425 3 02 00

**Email:** [ifstandartmetrology@gmail.com](mailto:ifstandartmetrology@gmail.com)

**Web:** <http://www.ifdcsms.com.ua>



## SE "IVANO-FRANKIVSKSTANDARTMETROLOGY ":

- carries out the fundamental scientific researches in the field of metrology, as well as the works related to the development and implementation of the state programs on metrology and conception of development of the metrological system of Ukraine in the field of measurements of gas volume and volume flow rate;
- carries out the applied scientific researches and scientific research works related to the creation, improvement, maintenance, comparison, and use of the national primary and secondary standards, the establishment of the systems of transferring the sizes of the of units of measurements;
- coordinates and carries out the scientific-methodological support of works on maintenance of uniformity of measurements in the field of measurements of gas volume and volume flow rate;
- carries out the conformity assessment of the measuring instruments;
- carries out the calibrations and verifications of the measuring instruments;
- carries out the measurements in the field of legally regulated metrology;
- provides the management of the information fund in the field of measurements of gas volume and volume flow rate;
- participates in the international cooperation on the measurements of gas volume and volume flow rate.

### 3. National measurement standards

Number of national measurement standards of Ukraine – 83.

<http://www.me.gov.ua/Documents/List?lang=uk-UA&id=cb9e4355-668e-4170-89af-ce23d4e0857e&tag=NatsionalnaEtalonnaBaza>

### 4. Status of participation in the Metre Convention

Member of the Metre Convention since 2018.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

Ministry of Economic Development and Trade of Ukraine (October 14, 2003).

Designated Institutions:

- NSC "Institute of Metrology" (Has the right to use the CIPM MRA logo since March 23, 2007).
- SE "Ukrmetrteststandart" (Has the right to use the CIPM MRA logo from August 17, 2007).
- SE "IVANO-FRANKIVSKSTANDARTMETROLOGY " (Has the right to use the CIPM MRA logo from December 11, 2013).
- DP NDI "Systema" (Has the right to use the CIPM MRA logo from July 30, 2007).

<https://www.bipm.org/en/about-us/member-states/ua/>

The General Director of NSC "Institute of Metrology" (Prof. Pavel Neyezhnikov) is a CIPM member (since 2018).

### 5. Confirmations of recognition of QMS of NMIs (within COOMET)

NSC "Institute of Metrology" QMS confirmation of recognition (ISO/IEC 17025): QSF-R86 until 30.09.2026.

SE "Ukrmetrteststandart" QMS confirmation of recognition (ISO/IEC 17025): QSF-R84 until 30.09.2026.

SE "Ukrmetrteststandart" QMS confirmation of recognition (ISO 17034): QSF-R85 until 30.09.2026.

DP NDI "Systema" QMS confirmation of recognition (ISO/IEC 17025): QSF-R46 until 15.02.2022 (validity period extended until 01.06.2023 by the decision of the COOMET President in view of Resolution JCRB 45-1).

SE "IVANO-FRANKIVSKSTANDARTMETROLOGY" QMS confirmation of recognition (ISO/IEC 17025): QSF-R54 until 04.10.2023.

## 6. State CMC data

KCDB: <https://www.bipm.org/kcdb/cmc/quick-search?keywords=ukraine>

COOMET database: <http://www.coomet.org/DB/com/index.htm?RU,CMC RU,RU>

## 7. OIML membership status

OIML member.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=222&CountryName=UKRAINE&iso=UA&M=1](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=222&CountryName=UKRAINE&iso=UA&M=1)



# UZBEKISTAN

<b>COOMET MoU year of signing:</b>	27 May 2004
<b>Area:</b>	448 924 km <sup>2</sup>
<b>Population:</b>	35,6 million

## 1. Law on metrology

The Law of the Republic of Uzbekistan "On Metrology" dated April 7, 2020 No. LRU-614.

## 2. Metrological infrastructure

State administration in the field of metrological activity is carried out by the national metrology body - the Uzbek Agency for Technical Regulation (hereinafter referred to as the specially authorized state body).

The metrological service of the Republic of Uzbekistan consists of the state metrological service, metrological services of state and economic administration bodies, as well as metrological services of legal entities that are not state and economic administration bodies.

The state metrological service consists of a specially authorized state body and its subdivisions in the Republic of Karakalpakstan, regions and the city of Tashkent, as well as the Uzbek National Institute of Metrology.

Metrological services of state and economic administration bodies consist of specially created and accredited subdivisions under state and economic administration bodies.

Metrological services of legal entities consist of specially created and accredited legal entities that are not state and economic administration bodies, and (or) subdivisions under them (hereinafter referred to as metrological services of legal entities).

Metrological services of state and economic administration bodies and metrological services of legal entities are created when necessary to carry out work to ensure the uniformity of measurements and to carry out metrological control.

### Uzbek Agency for Technical Regulation

The Uzbek Agency for Technical Regulation is a state administration body specially authorized to solve problems in the field of technical regulation, standardization, metrology and conformity assessment (hereinafter referred to as the field of technical regulation)..

The main tasks of the Uzbek Agency for Technical Regulation are:

- ensuring of the practical implementation of the Laws of the Republic of Uzbekistan "On Technical Regulation", "On Standardization", "On Metrology", "On Certification of Products and Services", "On Conformity Assessment" and other normative legal acts in the field of technical regulation;
- implementation of a unified state policy in the field of technical regulation, improving the quality and competitiveness of products based on the application of international standards, including the quality management system;
- ensuring of the development of technical regulation and dissemination of scientific and technical information in the field, as well as their harmonization with international, interstate and national systems of foreign countries;
- implementation of measures to ensure consumer rights related to the compliance with the requirements for safety and quality of products, works, services and protection from negative consequences of unreliable measurement results;

- organization of retraining and advanced training of personnel in the field of technical regulation;
- ensuring of the compliance of domestic products with modern requirements and increase of their competitiveness in foreign markets by actively introducing international standards and technical regulations in their production;
- widespread introduction of modern product quality management systems, primarily at exporting enterprises, and certification of products for compliance with the requirements of technical regulations and normative documents on standardization;
- creation of favorable conditions for exporting enterprises in the matters of product conformity assessment, intensification of interaction with international organizations aimed at ensuring the recognition of national certificates and the results of conformity assessment in the main export markets;
- further development of technical regulation and metrology systems, increase of their efficiency in ensuring systematic safety control of products sold;
- introduction of modern information and communication technologies, expansion of the types of interactive public services provided to business entities and to the population;
- warning and prevention of violations of legislation in the field of technical regulation, standardization, certification and metrology;
- provision of industrial enterprises and business entities with comprehensive assistance in the matters of technical regulation;
- organization and coordination of the implementation of state supervision over compliance with the requirements of regulatory documents in the field of technical regulation, ensuring of the uniformity and reliability of measurements, rules of mandatory certification;
- coordination of the activities of technical committees for standardization, created under state administration bodies and economic associations;
- provision of stakeholders with normative documents on standardization in the prescribed manner;
- achievement of the required level of harmonization of normative documents on standardization with international requirements;
- provision of instructions to the Heads of industries and enterprises in case of non-compliance with the requirements of technical regulations and standards;
- organization and coordination of the implementation of work on the development of the main indicators in the field of technical regulation, standardization, conformity assessment, accreditation and metrology.

**General Director: Mr. Dilshod Sattarov**

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**Phone:** +998 71 2020011

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**Email:** [uzst@standart.uz](mailto:uzst@standart.uz)

**Uzbek National Institute of Metrology (UzNIM)**

In accordance with the Decree of the President of the Republic of Uzbekistan the Uzbek National Institute of Metrology (UzNIM) was established in April 2017 on the basis of the existing State Institution "Center of National Standards", State Enterprise "Center on Rendering Metrological Services" and metrology units of the State Institution "Research Institute for Standardization, Metrology and Certification".

The main tasks and directions of activity of UzNIM are:

- implementation of measures to improve and develop the National measurement standards base of the Republic of Uzbekistan;
- maintenance of measurement standards, measuring instruments of the highest accuracy, their comparison at the international level, and storage and transfer of units of quantities;

- development of normative documents for ensuring the uniformity of measurements, implementation of international treaties on mutual recognition of metrological control results;
- implementation of metrological control and scientific research in the field of metrology.

**Director:** Mr. Lazizbek SAIDORIPOV

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**Web:** [www.nim.uz](http://www.nim.uz)

**Email:** [info@nim.uz](mailto:info@nim.uz)

### 3. National measurement standards

Number of national measurement standards: 23.

<http://nim.uz/ru/o-nas/etalony/>

### 4. Status of participation in the Metre Convention

Uzbekistan is an associate member of the CGPM since 2018.

Signatory of the Mutual Recognition Agreement (CIPM MRA):

UzNIM (November 12, 2018)

<https://www.bipm.org/en/about-us/associates/uz/>

### 5. Confirmations of recognition of QMS of NMIs (within COOMET)

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### 6. State CMC data

-

### 7. OIML membership status

OIML Corresponding member.

[https://www.oiml.org/en/structure/members/contactmember\\_view?IDCountry=228&CountryName=UZBEKISTAN&is\\_o=UZ&M=2](https://www.oiml.org/en/structure/members/contactmember_view?IDCountry=228&CountryName=UZBEKISTAN&is_o=UZ&M=2)



## **ADDITIONAL INFORMATION**

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## COOMET Documents

№	Document title	Registration number	Remarks
1.	<b>COOMET Memorandum of Understanding</b>	<b>COOMET D1/2022</b>	
2.	<b>COOMET Rules of Procedure</b>	<b>COOMET D2/2021</b>	
3.	<b>Memorandum</b> on cooperation in development and application of reference materials of composition and properties of substances and materials within COOMET	<b>COOMET D3/2008</b>	Project 28/RU-a/92 381/BY/07
4.	<b>Document</b> COOMET Publications. Classification, Procedure for Development, Approval, Registration and Update.	<b>COOMET D4/2022</b>	Project 264/BY-a/02
5.	<b>Document</b> Model Regulations for COOMET Structural Bodies	<b>COOMET D5/2021</b>	Project 248/BY-a/02
6.	<b>Document</b> Procedure for Maintaining COOMET Website. General Provisions	<b>COOMET D6/2013</b>	Project 251/BY-a/02
7.	<b>Document</b> Regulation on Awarding the Distinguished Title "Honorary Metrologist of COOMET"	<b>COOMET D7/2019</b>	
8.	<b>Document</b> Criteria and Procedure of Admission for New COOMET Members	<b>COOMET D8/2006</b>	
10.	<b>Document</b> COOMET Web Portal.General Provisions and maintenance	<b>COOMET D10/2013</b>	Project 500/UA-a/10
11.	<b>Document</b> The Procedure of Using the COOMET Logo	<b>COOMET D11/2016</b>	

## Regulations of the COOMET Structural Bodies

№	Document title	Registration number	Remarks
1.	<b>Regulation</b> on the COOMET Joint Committee for Measurement Standards (JCMS)	<b>COOMET D5.1/2022</b>	
2.	<b>Regulation</b> on the COOMET Technical Committee "Acoustics, Ultrasound, Vibration" (TC 1.2)	<b>COOMET D5.2/2022</b>	
3.	<b>Regulation</b> on the COOMET Technical Committee "Flow Measurement" (TC 1.4)	<b>COOMET D5.3/2021</b>	
4.	<b>Regulation</b> on the COOMET Technical Committee "Length and Angle" (TC 1.5)	<b>COOMET D5.4/2022</b>	
5.	<b>Regulation</b> on the COOMET Technical Committee "Photometry and Radiometry" (TC 1.7)	<b>COOMET D5.5/2022</b>	
6.	<b>Regulation</b> on the COOMET Technical Committee "Physical Chemistry" (TC 1.8)	<b>COOMET D5.6/2022</b>	
7.	<b>Regulation</b> on the COOMET Technical Committee "Reference Materials" (TC 1.12)	<b>COOMET D5.7/2022</b>	
8.	<b>Regulation</b> of " General Questions Concerning Measurements (General Metrology)" (TC 1.1)	<b>COOMET D5.8/2021</b>	
9.	<b>Regulation</b> on the COOMET Technical Committee "Mass and Related Quantities" (TC 1.6)	<b>COOMET D5.9/2012</b>	
10.	<b>Regulation</b> on the COOMET Technical Committee "Thermometry and Thermal Physics" (TC 1.10)	<b>COOMET D5.10/2022</b>	
11.	<b>Regulation</b> on the COOMET Technical Committee "Time and Frequency" (TC 1.11)	<b>COOMET D5.11/2022</b>	
12.	<b>Regulation</b> on the COOMET Technical Committee "Legal Metrology" (TC 2)	<b>COOMET D5.12/2022</b>	

№	Document title	Registration number	Remarks
13.	<b>Regulation</b> on the COOMET Technical Committee "Information and Training" (TC 4)	COOMET D5.13/2021	
14.	<b>Regulation</b> on the COOMET Technical Committee " Ionizing Radiation and Radioactivity " (TC 1.9)	COOMET D5.14/2021	
15.	<b>Regulation</b> on the COOMET Technical Committee " Electricity and Magnetism" (TC 1.3)	COOMET D5.15/2022	
16.	<b>Regulation</b> on the COOMET Technical Committee "Quality Forum Technical Committee" (TC 3.1)	COOMET D5.16/2019	
17.	<b>Regulation</b> on the COOMET Appeal Board on comparisons of the national measurement standards and CMC data peer review	COOMET D5.17/2016	
18.	<b>Regulation</b> on the Quality Forum	COOMET D5.18/2021	

## COOMET Recommendations

№	Recommendation title	Registration number	Remarks
1.	<b>Recommendation</b> Interstate Hierarchical Chain for Time and Frequency Measuring Instruments	COOMET R/TF/2:1995	Project 16/RU-a/92
2.	<b>Recommendation</b> Requirements to Time and Frequency Measuring Equipment Produced by the COOMET Member Countries Required for Mutual Recognition of the Results of National Metrological Verifications and Certifications	COOMET R/TF/3:1995	Project 16/RU-a/92
3.	<b>Recommendation</b> Procedure of Joint Development, Recognition and Registration of Reference Materials within COOMET	COOMET R/RM/4:2008	Project 132/RU-a/95 374/RU/06
4.	<b>Recommendation</b> Contents and Rules of Drawing Up Documents for RM Developed within COOMET	COOMET R/RM/5:2010	Project 151/RU-a/96 414/UA/08
5.	<b>Recommendation</b> Register of Reference Materials of Composition and Properties of Substances and Materials Developed within COOMET. Fundamentals	COOMET R/RM/6:1910	Project 413/KZ/07
6.	<b>Recommendation</b> Procedure for an Intraregional Review of Calibration and Measurement Capabilities of COOMET NMIs and Dis and an Interregional Review of Calibration and Measurement Capabilities of NMIs and DIs of Other Regional Metrology Organisations	COOMET R/GM/7:2021	Project 828/RU/21
7.	<b>Recommendation</b> Layout, Presentation, Drawing Up and Contents of Measuring Instrument Type Specifications for National Register of Measuring Instruments	COOMET R/LM/8:2002	Project 207/BY/00
8.	<b>Recommendation</b> Recommendations on the evaluation of quality management systems of National metrology institutes/Designated institutes <b>Annex 1</b> Criteria for the recognition of the quality management systems in COOMET NMIs/DIs <b>Annex 2 (Annex A)</b> Recommendations on giving an oral presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/Designated institutes (NMI/DI QMS) <b>Annex 3 (Annex B)</b> Recommendations on preparing a written presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/ Designated institutes (NMI/DI QMS) <b>Annex 4</b> Regulation for auditors on a peer review of the QMS of NMIs/DIs <b>Annex 5</b> Form of electronic voting ballots on recognition of the QMS	COOMET R/AQ/9:2019	Project 230/SK/01
9.	<b>Recommendation</b> Regulations on Comparisons of Measurement Standards of COOMET National Metrology Institutes and Designated Institutes	COOMET R/GM/11:2021	Project 828/RU/21



№	Recommendation title	Registration number	Remarks
10.	<b>Recommendation</b> Rules of Maintaining of the COOMET Programme of Comparisons	<b>COOMET</b> <b>R/GM/12:2021</b>	Project 828/RU/21
11.	<b>Recommendation</b> Rules and Procedure for the evaluation of the quality management systems of National metrology institutes/Designated institutes <b>Annex A</b> Recommendations on giving an oral presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/Designated institutes (NMI/DI QMS) <b>Annex B</b> Recommendations on preparing a written presentation at the COOMET Quality Forum of the quality management systems of National metrology institutes/ Designated institutes (NMI/DI QMS) <b>Annex 1</b> Application for a peer review of the NMI/DI quality management system (form) <b>Annex 2</b> Schedule of the realization of peer reviews in the COOMET NMIs/DIs (form) <b>Annex 3</b> Recommendations for on-site visits by peers and selection criteria for on-site visit peer reviewers (document CIPM 2007-25) <b>Annex 4</b> Plan for a peer review of the NMI/DI quality management systems <b>Annex 5</b> Nonconformance protocols (forms) <b>Annex 6</b> Reports of a technical expert and auditor for peer review of the QMS NMI/DI (forms) <b>Annex 7</b> General report on the peer review of the NMI/DI QMS (form) <b>Annex 8</b> Action plan to remove nonconformities (form) <b>Annex 9</b> COOMET Confirmation of Recognition of QMS (form) <b>Annex 10</b> Annual report on the NMI/DI QMS (form) <b>Annex 11</b> Recommendations for the preparation of an annual report on the NMI/DI QMS <b>Annex 12</b> Monitoring of annual reports of COOMET NMIs/DIs	<b>COOMET</b> <b>R/AQ/13:2019</b>	Project 230/SK/01
12.	<b>Recommendation</b> Guidelines for Data Evaluation of COOMET Key Comparisons	<b>COOMET</b> <b>R/GM/14:2016</b>	Project 336/RU/05
13.	<b>Recommendation</b> Rules of Completion of the Form of Calibration Certificates issued by National Metrology Institutes and Designated Institutes within the scope of the CIPM MRA	<b>COOMET</b> <b>R/GM/15:2020</b>	Project 795/UA/19
14.	<b>Recommendation</b> Recommendation for Acceptance of Certified Reference Materials into Appendix C of the CIPM MRA	<b>COOMET</b> <b>R/RM/16:2007</b>	Project 290/RU-a/03
15.	<b>Recommendation</b> Guidelines for Issuing Certificate of Participant of COOMET CRM Interlaboratory Certification	<b>COOMET</b> <b>R/RM/17:2011</b>	Project 349/BY-a/05 496/BY-a/10
16.	<b>Recommendation</b> Procedure of the International Competition "The Best Young Metrologist of COOMET"	<b>COOMET</b> <b>R/GM/18:2022</b>	Project 335/UA/05
17.	<b>Recommendation</b> Guideline on COOMET supplementary comparison evaluation	<b>COOMET</b> <b>R/GM/19:2016</b>	Project 302/RU/04
18.	<b>Recommendation</b> State system for ensuring the uniformity of measurements. Scales of Measurements. Terms and Definitions	<b>COOMET</b> <b>R/GM/20:2009</b>	Project 287/RU/03
19.	<b>Recommendation</b> Use of concepts "error of measurement" and "uncertainty of measurement". General principles materials	<b>COOMET</b> <b>R/GM/21:2011</b>	Project 347/RU/05
20.	<b>Recommendation</b> Form and Content of COOMET Certificate for Reference Materials for Composition and Properties of Substances and Materials	<b>COOMET</b> <b>R/RM/22:2020</b>	Project 697/RU/16
21.	<b>Recommendation</b> Educational programs and practical training programs of experts of National Metrological Institutes cooperating in COOMET	<b>COOMET</b> <b>R/IT/24:2014</b>	Project 541/RU-a/11 391/RU-a/07

№	Recommendation title	Registration number	Remarks
22.	<b>Recommendation</b> Procedure for recognizing technical devices as measuring instruments	<b>COOMET</b> <b>R/LM/25:2015</b>	Project 523/BY/11
23.	<b>Recommendation</b> General requirements for the competence of verification laboratories	<b>COOMET</b> <b>R/LM/26:2015</b>	Project 491/UA/10
24.	<b>Recommendation</b> Procedure for preparing certificates of training, study visits and up-skilling within the framework of COOMET	<b>COOMET</b> <b>R/IT/27:2015</b>	Project 597/BY/13
25.	<b>Recommendation</b> Standard program for testing the software of measuring instruments	<b>COOMET</b> <b>R/LM/28:2016</b>	Project 425/BY/08
26.	<b>Recommendation</b> The Content and Procedure of Work on Reference Material Comparison within COOMET	<b>COOMET</b> <b>R/RM/29:2016</b>	Project 498/RU/10
27.	<b>Recommendation</b> Procedure for completing the Form of COOMET database for COOMET reference materials	<b>COOMET</b> <b>R/RM/30:2016</b>	Project 543/AM/11
28.	<b>Recommendation</b> Calibration techniques. General requirements	<b>COOMET</b> <b>R/GM/31:2016</b>	Project 422/RU-a/08
29.	<b>Recommendation</b> Calibration of measuring instruments. Algorithms of processing measurement results and uncertainty evaluation	<b>COOMET</b> <b>R/GM/32:2017</b>	Project 420/RU-a/08
30.	<b>Recommendation</b> Calibration of platinum resistance thermometers by comparison method	<b>COOMET</b> <b>R/T/33:2018</b>	Project 633/KG/14
31.	<b>Recommendation</b> Temporary Rules and Procedure for Peer Reviews of Quality Management Systems of National Metrology Institutes/Designated Institutes (QMS of NMIs/DIs) During the COVID-19 Pandemic	<b>COOMET</b> <b>R/AQ/34:2021</b>	
32.	<b>Recommendation</b> Expression of expanded measurement uncertainty (kurtosis method)	<b>COOMET</b> <b>R/GM/35:2022</b>	Project 796/UA/19

## COOMET Programs

№	Program title	Registration number	Remarks
1	<b>COOMET PROGRAM</b> COOMET Development Programme for 2020-2022	<b>COOMET</b> <b>P1/2020</b>	
2	<b>COOMET PROGRAM</b> COOMET Program of Comparisons	<b>COOMET</b> <b>P2/2022</b>	Updated annually
3	<b>COOMET PROGRAM</b> Work Program of TC 2 "Legal Metrology" for 2021-2023	<b>COOMET</b> <b>P3/2021</b>	Elaborated by TC 2
4	<b>COOMET PROGRAM</b> Work Program of TC 4 "Information and Training" for 2021-2023	<b>COOMET</b> <b>P4/2021</b>	Elaborated by TC 4
5	<b>COOMET PROGRAM</b> Programme of Joint CRM Production within COOMET for 2022-2024	<b>COOMET</b> <b>P5/2022</b>	Project 186/RU/99
6	<b>COOMET PROGRAM</b> COOMET Roadmap for the Implementation of Decisions Related to the Redefinition of the Basic Units of the International System of Units (SI) for 2020-2025	<b>COOMET</b> <b>P6/2021</b>	Elaborated by JCMS

## COOMET Informational Materials

№	Informational Material title	Registration number	Remarks
1	Normative Documents Regulating the Questions of RM Production and Use, Analytical Overview (based on information provided by COOMET contact persons for RM)	<b>COOMET I/RM/1:2001</b>	Project 185/RU/99
2	Register of Certified Reference Materials of Composition and Properties of Substances and Materials Developed within COOMET	<b>COOMET I/RM/2:2021</b>	TC 1.12 Secretariat is maintaining and updating the Register
3	Survey of Technical Requirements in the Field of Legal Metrology in COOMET Member Countries	<b>COOMET I/LM/3:2003</b>	Project 204/DE-a/00
4	Analysis of Cooperation Projects within APLMF and Preparation of Proposals for Cooperation of COOMET with this RMO in the Field of Legal Metrology	<b>COOMET I/LM/5:2005</b>	Project 307/RU-a/04
5	Review National Educational Systems in the Field of Metrology in COOMET Member Countries	<b>COOMET I/TR/6:2005</b>	Project 270/BY-a/03
6	Methodology for uncertainty evaluation of measurement results obtained by data processing software	<b>COOMET I/IT/7:2016</b>	Project 399/RU-a/07
7	Overview on the progress with prepackages control in COOMET member countries	<b>COOMET ILM/8:2019</b>	Project 602/BY/13
8	Metrological supervision performed by metrological services of legal entities. General principles	<b>COOMET ILM/9:2019</b>	Project 667/RU/15
9	Organization of the Sphere of State Regulation in the Field of Legal Metrology in COOMET Member Countries	<b>COOMET I/LM/10:2021</b>	Project 629/RU-a/13
10	On Remote Calibration of Standards of COOMET NMIs	<b>COOMET I/GM/11:2021</b>	
11	Training systems for metrologists of COOMET member countries	<b>COOMET I/TR/12:2022</b>	Project 731/BY-a/17



# COOMET COMMITTEE MEETINGS

No	Date	Country and City	Participants (representatives of national, international and regional organizations)
1	13–14 November, 1991	POLAND (Warsaw)	BG, CS, CU, DE, HU, PL, RO, SU
2	2–3 June, 1992	POLAND (Warsaw)	BG, CS, CU, DE, HU, PL, RO, RU, UA
3	17–19 March, 1993	GERMANY (Berlin)	BG, BY, DE, PL, RO, RU, SK, UA, LT, BIML, EURAMET
4	19–20 April, 1994	SLOVAKIA (Bratislava)	BG, BY, DE, PL, RO, RU, SK, UA, LT, BIML
5	4–5 April, 1995	SLOVAKIA (Bratislava)	BG, BY, DE, PL, RO, RU, SK, UA, HU, CZ, BIPM, EURAMET, BIML
6	10–12 April, 1996	BULGARIA (Sofia)	BG, BY, DE, LT, PL, RO, RU, SK, UA, BIPM, BIML, EURAMET, WELMEC
7	23–25 April, 1997	GERMANY (Braunschweig)	BY, BG, DE, LT, PL, RO, RU, SK, UA, MD, EE; BIML, EURAMET, WELMEC
8	12–13 May, 1998	BELARUS (Minsk)	BY, BG, DE, LT, MD, PL, RU, SK, UA BIPM, STC
9	12–13 May, 1999	RUSSIA (Moscow)	BY, BG, DE, KZ, LT, MD, PL, RU, SK, UA
10	25–26 May, 2000	KAZAKHSTAN (Almaty)	BY, DE, KZ, KG, CU, MD, PL, RU, SK, UA, YU, UZ
11	25–26 April, 2001	MOLDOVA (Chisinau)	BY, DE, KZ, KG, LT, CU, MD, RU, RO, SK, UA
12	6–7 May, 2002	CUBA (Havana)	BY, DE, LT, CU, RU, RO, SK, UA; BIML
13	29–30 April, 2003	UKRAINE (Yalta)	BY, BG, DE, KP, LT, CU, MD, RU, SK, UA
14	27–28 May, 2004	BULGARIA (Albena)	BY, BG, DE, KZ, KP, LT, CU, MD, RU, UZ, UA; BIML
15	8–9 September, 2005	LITHUANIA (Vilnius)	BY, BG, DE, LT, MD, RU, SK, UZ, UA
16	4–5 September, 2006	GERMANY (Braunschweig)	BY, BG, CZ, DE, GE, KG, KZ, LT, MD, RU, SK, UA, UZ; CIPM, OIML, BIML, APMP, EURAMET
17	24–25 April, 2007	BELARUS (Minsk)	AM, AZ, BY, BG, DE, GE, KG, KZ, LT, RU, SK, UA, UZ; BIPM, BIML, EURAMET, WELMEC, APMP, EASC
18	15–16 May, 2008	UKRAINE (Kharkov)	AM, AZ, BY, CU, DE, RU, SK, UA, UZ; BIML, EURAMET
19	20–21 May, 2009	AZERBAIJAN (Baku)	AZ, BY, BG, CU, DE, GE, KG, LT, MD, RU, SK, UA, UZ; BIML, EURAMET, NCSLI, WELMEC
20	21–22 April, 2010	KAZAKHSTAN (Astana)	AZ, AM, BY, KG, KZ, LT, RU, SK, TJ, UA, UZ; APMP
21	27–28 April, 2011	ARMENIA (Yerevan)	AM, BY, CU, DE, GE, KG, KZ, LT, MD, RU, RO, SK, UA, UZ; CIML, BIML, BIPM, WELMEC
22	18–19 April, 2012	KYRGYZSTAN (Cholpon-Ata)	AZ, AM, BY, DE, GE, KZ, KG, LV, RU, SK, TJ, UZ, UA, BIML, BIPM, EURAMET, APMP
23	5–6 July, 2013	RUSSIA (Nizhny Novgorod)	AZ, AM, BA, BY, DE, HR, KG, KZ, LT, MK, RU, SK, TJ, UZ, UA BIML, BIPM
24	16–17 April, 2014	RUSSIA (Ekaterinburg)	AZ, AM, BY, DE, KG, KZ, RU, SK, TJ, TR, UZ, UA, BIML, BIPM
25	27–28 May, 2015	TAJIKISTAN (Khujand)	AZ, AM, BY, DE, GE, KZ, KG, MD, RU, TJ, TR, UZ, UA, CN, USA, BIML, BIPM
26	20–21 April, 2016	ARMENIA (Erevan)	AM, BY, CN, CU, DE, KG, GE, KZ, RU, SK, TJ, UZ, UA, BIML, BIPM
27	27–28 April, 2017	BELARUS (Minsk)	AZ, AM, BY, BA, CN, CU, DE, GE, KZ, KG, LT, MD, RU, SK, TJ, UZ, UA, OIML, BIPM, EEC

№	Date	Country and City	Participants (representatives of national, international and regional organizations)
28	11-12 April 2018	BOSNIA and HERZEGOVINA (Sarajevo)	AZ, AM, BY, BA, CN, CU, DE, GE, KZ, KG, LT, MD, RU, SK, TR, UZ, UA, OIML, BIPM, APMP, EURAMET
29	3-4 April 2019	GERMANY (Dresden)	AM, BY, BA, CN, CU, DE, GE, KZ, KG, LT, MD, RU, SK, TJ, UZ, UA, TM OIML, BIPM, APMP, EURAMET, WELMEC
30	24 September 2020	ONLINE	AZ, AM, BY, BA, CN, DE, GE, KZ, KG, LT, MD, RU, SK, TJ, TR, UZ, UA
31	15-17 June 2021	ONLINE	AZ, AM, BY, BA, BG, CN, DE, GE, KZ, KG, LT, MD, RU, SK, TJ, TR, UZ, UA OIML, BIPM, APMP, APLMF, EURAMET, WELMEC, SIM, NCSL International, EASC
32	26 October 2021	ONLINE (extraordinary)	AZ, AM, BY, CN, DE, GE, KZ, KG, LT, MD, RU, SK, TJ, TR, UZ, UA
33	25-27 October 2022	ONLINE	AZ, AM, BY, CN, KZ, KG, MD, RU, SK, TJ, UZ OIML, BIPM, APMP, AFRIMETS, EURAMET, GULFMET, SIM, EASC

### Country codes:

AM – Armenia	CZ – Czech Republic	LT – Lithuania	TM - Turkmenistan
AZ – Azerbaijan	DE – Germany	MD – Moldova	UA – Ukraine
BA – Bosnia and Herzegovina	EE – Estonia	PL – Poland	US - USA
BG – Bulgaria	GE – Georgia	RO – Romania	UZ – Uzbekistan
BY – Belarus	HU – Hungary	RU – Russia	YU – Yugoslavia
CN – China	KG – Kyrgyzstan	SK – Slovakia	
CU – Cuba	KP – DPR of Korea	TJ – Tajikistan	
CS – Czechoslovakia	KZ – Kazakhstan	TR - Turkey	

## Acronyms for the names of National Bodies for Metrology, NMIs and DIs of COOMET member countries

AzMI	Azerbaijan	Legal entity of public law "Azerbaijan Institute of Metrology"
BAM	Germany	Bundesanstalt für Materialforschung und –prüfung
BelGIM	Belarus	Belarusian State Institute of Metrology
BelGISS	Belarus	Belarusian State Institute of Standardization and Certification
BIM	Bulgaria	Bulgarian Institute of Metrology
CENTIS	Cuba	Center of Isotopes
CJSC "NBSM"	Armenia	Closed Joint Stock Company "National Body for Standardization and Metrology"
CPHR	Cuba	Center for Radiation Protection and Hygiene
CTRM	Kazakhstan	Committee of Technical Regulation and Metrology of the Ministry of Trade and Integration of the Republic of Kazakhstan
DAkKS	Germany	Deutsche Akkreditierungsstelle GmbH
DAM	Germany	Office of Consortium on Metrology and Verification at German Academy of Metrology
DKD	Germany	(former) Deutscher Kalibrierdienst
DP NDI "Systema"	Ukraine	State Enterprise "Scientific-Research Institute for Metrology of Measurement and Control Systems"
FTMC	Lithuania	State Research Institute Center for Physical Sciences and Technology
GD MMI	Bulgaria	General Directorate "Measures and Measuring Instruments"
GD MS	Bulgaria	General Directorate "Metrological Supervision"
GD NCM	Bulgaria	General Directorate "National Centre of Metrology"
GDMSIP	Turkey	The General Directorate for Metrology and Safety of Industrial Products Standardization
GEOSTM	Georgia	Georgian National Agency for Standards and Metrology
Gosstandart of Belarus	Belarus	State Committee for Standardization of the Republic of Belarus
IMBIH	Bosnia and Herzegovina	Institute of Metrology of Bosnia and Herzegovina
INIMET	Cuba	National Research Institute on Metrology
INM-MD	Moldova	National Institute of Metrology
KTU MI	Lithuania	Metrology Institute at Kaunas Technology University
KYRGYZSTANDART	Kyrgyzstan	Center for Standardization and Metrology under the Ministry of Economy and Commerce of the Kyrgyz Republic
LA	Lithuania	National Accreditation Bureau
LEI	Lithuania	Lithuanian Energy Institute
MECKR	Kyrgyzstan	Ministry of Economy and Commerce of the Kyrgyz Republic
MEN	Germany	Verification Authority of Lower Saxony
NC	Cuba	Cuban National Bureau of Standards
NIM	China	National Institute of Metrology
NSC "IM"	Ukraine	National Scientific Centre "Institute of Metrology"
PTB	Germany	Physikalisch-Technische Bundesanstalt
Rosstandart	Russia	Federal Agency on Technical Regulation and Metrology of the Russian Federation

RSE "KazStandard"	Kazakhstan	Republic State Enterprise "Kazakhstan Institute of Standardization and Metrology"
SAMR	China	State Administration for Market Regulation
SAMTS	Bulgaria	State Agency for Metrological and Technical Surveillance
SE "IVANO-FRANKIVSKSTANDART METROLOGY "	Ukraine	STATE ENTERPRISE "IVANO-FRANKIVSK SCIENTIFIC AND PRODUCTION CENTER FOR STANDARDIZATION, METROLOGY AND CERTIFICATION" (SE "IVANO-FRANKIVSKSTANDARTMETROLOGY")
SE "Ukrmetrteststandart"	Ukraine	State Enterprise "All-Ukrainian State Research and Production Centre of Standardization, Metrology, Certification and Consumer Protection"
SLM	Slovakia	Slovak Legal Metrology
SMI	Slovakia	Slovak Metrology Inspectorate
SMU	Slovakia	Slovak Institute of Metrology
SNAS	Slovakia	Slovak National Accreditation Service
Tajikstandard	Tajikistan	Agency on Standardization, Metrology, Certification and Trade Inspection under the Government of the Republic of Tajikistan
TSU	Slovakia	Technical Testing Institute
TÜBİTAK UME	Turkey	Ulusal Metroloji Enstitüsü (National Metrology Institute)
UBA	Germany	Umweltbundesamt
UNIIM - branch of VNIIM	Russia	Urals Scientific Research Institute of Metrology
UNMS	Slovakia	Slovak Office of Standards, Metrology and Testing
UzNIM	Uzbekistan	Uzbek National Institute of Metrology
VNIIFTRI	Russia	All-Russian Scientific Research Institute of Physico-Technical Measurements
VNIIM	Russia	All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev
VNIIMS	Russia	All-Russian Scientific Research Institute of Metrological Service
VNIIOFI	Russia	All-Russian Scientific Research Institute of Optical and Physical Measurements
VNIIR-branch of VNIIM	Russia	All-Russian Scientific Research Institute of Flow Metering

## Acronyms for the names of international and regional metrology organizations

AFRIMETS	Intra-African Metrology System
APLAC	Asia Pacific Laboratory Accreditation Cooperation
APLMF	Asia Pacific Legal Metrology Forum
APMP	Asia Pacific Metrology Programme
BIML	International Bureau of Legal Metrology
BIPM	International Bureau of Weights and Measures
CODATA	Committee on Data for Science and Technology
EA	European Cooperation for Accreditation
EASC	Euro-Asian Council for Standardization, Metrology and Certification
EURAMET	European Association of National Metrology Institutes
EUROCAL	European Cooperation of accredited calibration laboratories
GULFMET	GULF Association for Metrology
IEC	International Electrotechnical Commission
ILAC	International Laboratory Accreditation Cooperation
ISO	International Organisation for Standardization
JCRB	Joint Committee of Regional Metrology Organisations and BIPM
NCSLI	National Conference of Standards Laboratories International
OIML	International Organisation of Legal Metrology
SIM	Inter-American Metrology System
STCMetr	Scientific & Technical Commission on Metrology of Euro-Asian Council for Standardization, Metrology and Certification
WELMEC	European Cooperation in Legal Metrology