



**26<sup>th</sup> ASIA-PACIFIC LEGAL  
METROLOGY FORUM AND  
WORKING GROUP MEETINGS**  
6-8 November 2019, Ha Long City,  
Quang Ninh Province, Viet Nam



## Economy Report - 2019

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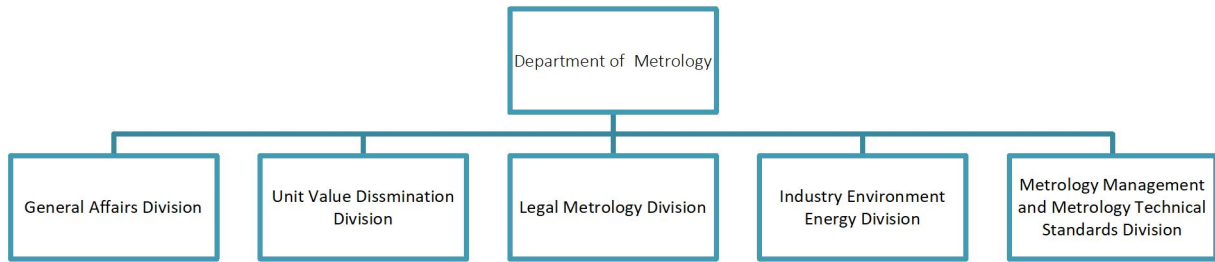
### *[P.R.China]*

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## **SECTION 1 – Organisation and structure for metrology**

### **Organisation Structures**

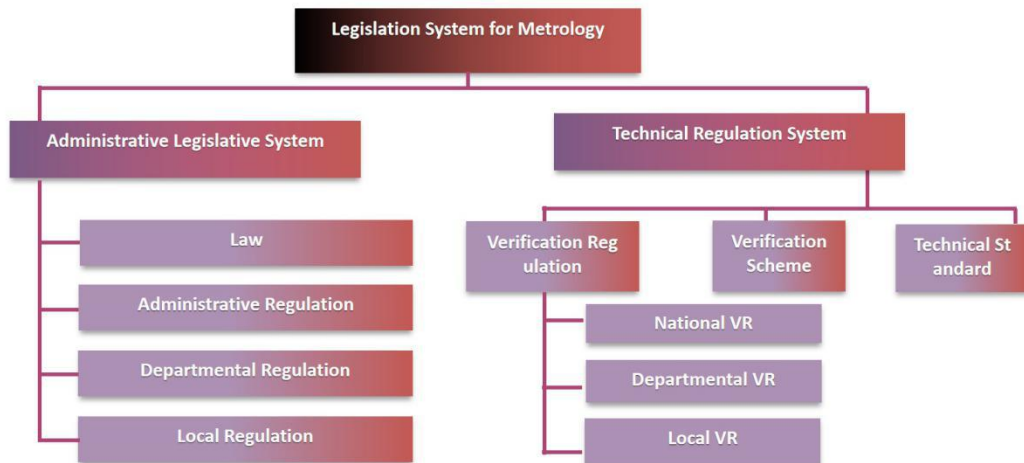
The Department of Metrology of State Administration for Market Regulation (SAMR) P.R. China organizes the implementation of metrological laws and regulations, popularizes legal metrology units, administers and supervises national primary metrological standards, metrology standards and reference materials, organizes and formulates national verification system for metrology, verification standards and procedures, and technical standards for measurement, organizes national unit value dissemination, supervises and administers metrological instruments all over the country according to the law, standardizes market measuring behavior, organizes the verification of metrological arbitration, standardizes social equity metrological service agencies, undertakes the detailed work of OIML.



## Legislative Frameworks

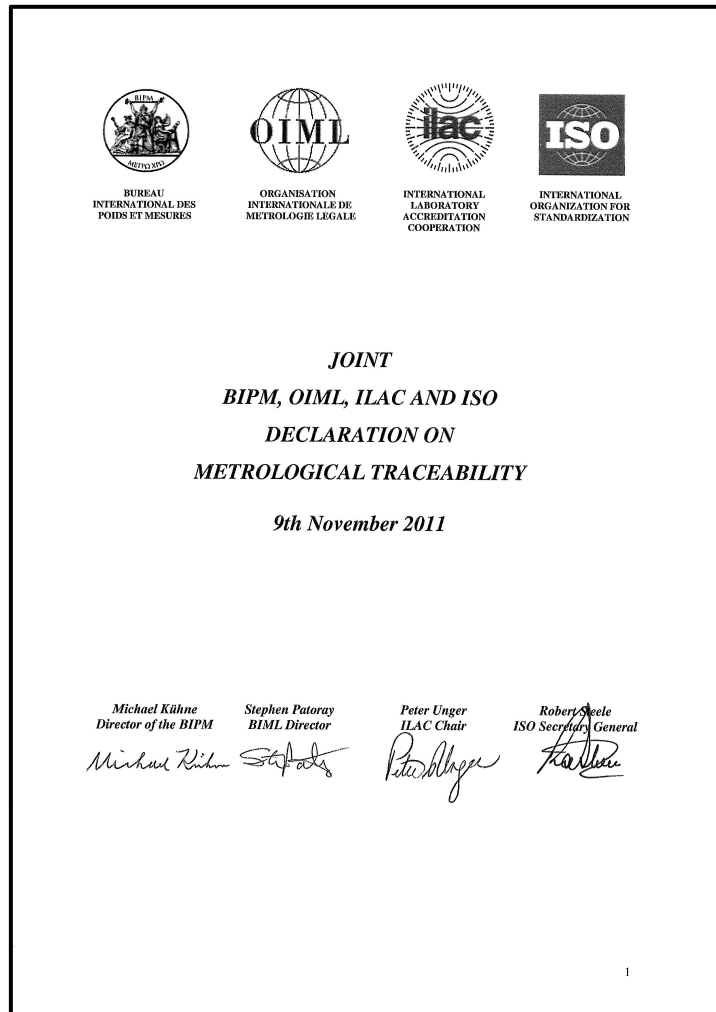
# Metrological System in China

Legislation System for Metrology

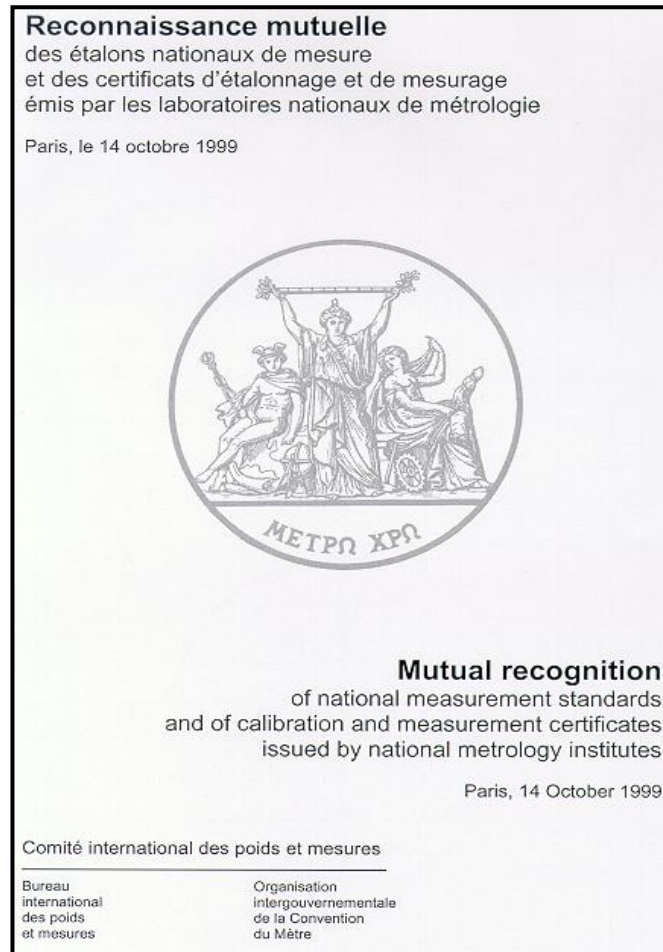


## International arrangements and engagement

- ❖ 《JOINT BIPM, OIML, ILAC AND ISO DECLARATION ON METROLOGICAL TRACEABILITY》 9th November 2011



- ❖ 《Mutual recognition of national measurement standards and of calibration and measurement certificates issued by national metrology institutes》
- ❖ The quantity of CMC items recognized internationally is up to 1574, the 3rd place world wide and the 1st in Asia.



- ❖ The OIML-CS is a system for issuing, registering and using OIML Certificates and their associated OIML type evaluation/test reports for types of measuring instruments, based on the requirements of OIML Recommendations, to realize “once testing, one certificate, mutual acceptance globally”

## SECTION 2 – Key activities of 2018/19

### Proceed to develop the System of the National Law and Regulations

Proceeded to amend the <<Law on Metrology>>, as well as accelerated a series of work of drawing up and amending of regulations on metrology as below:

- ❖ <<Regulation on the National Standard Time>>
- ❖ <<Regulation on the Metrology Calibration>>
- ❖ <<Regulation on the Metrology Surveillance of Pre-package Commodity>>
- ❖ <<Regulation on the National Material Reference>>
- ❖ <<Regulation on the Limited Usage of the Illegal Unit of Measurement>>

These regulations provided the guideline of legal metrology for the market surveillance.

We drew up <<Rules on the Adopting International Metrology Regulation in the National Metrology Technology Regulation>> , and issued 112 national regulations.

We Amended <<Regulation on the Mechanism of Certified Public Metrologist Professional Qualification>> and <<Regulation on the implement of Certified Public Metrologist Professional Qualification examination>> to improve the system of the management of metrologists

### Developing the Market Surveillance on Metrology

We designed and programmed the metrology special item surveillances to strengthen the consumption confidence in the market. These surveillances involved:

- ❖ Enhanced the reviewing and surveillance of usage of the legal unit of metrology
- ❖ Launched the metrology special item surveillance of domestic glasses manufacture
- ❖ Launched the national metrology special item surveillance of the net quantity in pre-package
- ❖ Launched the metrology special item surveillance of the instruments relevance to the people's livelihood
- ❖ Enhanced the surveillance of the energy efficiency label and the water efficiency label
- ❖ Launched the surveillance covered all the authorized metrology technical bodies
- ❖ Drew up <<The Catalogue of the Instruments Administrated Compulsorily>>, and established the mechanism with dynamic development.
- ❖ Launched the pilot projects of the combination implement of the initial verification and the factory verification of the instruments
- ❖ Launched the self-commitment mechanism for enterprises to decline the running and management cost

[INSERT YOUR ORGANISATION LOGO ]

## International Activities

On May 20, nearly 500 Chinese and foreign guests, academicians, experts and scholars from the metrology field gathered at China Hall of Science and Technology in Beijing and participated in the event. Qin Yizhi, Deputy Director (minister level) of the State Administration for Market Regulation announced that China would officially implement the new definitions of base units of SI from May 20th, and pointed out that metrology is an important foundation for the development of integrated national strategies and strategic capabilities while the International System of Units is the cornerstone of the global measurement system. The State Administration for Market Regulation will abide by the resolutions of the General Conference of Weights & Measures, continue to implement the national legal measurement units based on the SI, and take this opportunity presented by the resolution on the redefinition of the base units of the SI to establish and perfect a dynamic metrological system and speed up the quantization of metrology in China. All these efforts aim to add value and weight to metrology, which plays the role of a ballast in the ship named ‘quality development’. During his speech at the event, Mr. Donnellan thanked China for the active role it plays in international metrological affairs.

21 Aug 2019, the agreement of the cooperation on metrology between China and Germany has been renewed, and the seminar of the cooperation on metrology between these 2 countries was held. There are more than 200 delegates from the governments of two countries’, PTB, NIM, metrology technical bodies and enterprises participated the activities.

OIML/APLMF Seminar on the OIML Certification System (OIML-CS) has been hosted in Hangzhou, P.R. China during 15 – 17 July 2019. This seminar is part of the MEDEA Project work program, which is supported by the Physikalisch-Technische Bundesanstalt (PTB), in partnership with the OIML Training Centre (OTC). It is hosted and supported by the State Administration for Market Regulation (SAMR), P.R. China. This seminar was primarily focused on providing participants with a detailed understanding of the OIML-CS and how it can support an economy to implement a new national type approval system, without the need to invest in expensive test facilities. Existing participants in the OIML-CS explained how it had benefitted their economy. Breakout sessions enabled participants to share their knowledge and experiences and to identify the needs for their economy and the region.

## SECTION 3 – Future focus

### New initiatives planned (next 1-2 years)

Firstly we are going to enhance the metrology infrastructure establishment, steps as below:

- ❖ Optimize the system of national unit value dissemination and tracing back
- ❖ Implement the action of promoting the quality of reference material
- ❖ Advance the metrology calibration market developed healthily and in order
- ❖ Establish and improve the national industry metrology testing service system

Secondly we propose to accelerate the metrology strategy designing and system establishment, steps involved:

- ❖ Accelerate the establishment of the national modern advanced measurement system
- ❖ Enhance the establishment of informationize and big-data platform on metrology
- ❖ Enhance the promotion of awareness and culture on metrology
- ❖ Start the medium and long term programm development of metrology

We will give full play to market forces and build a vigorous system of metrology. As the technical support of national governance, metrology plays an increasingly important role in economic and societal development and we will make more reforms and innovation, to get motives from reform and to increase the vitality of market. We will follow the new direction, find our new position and seize the new opportunities. While ensuring a uniform system of units and the accuracy and reliability of measurements, we should be open-minded, be aware of problems, implement the State Council’s initiative of “streamlining administration, strengthening supervision, and optimizing services”. We shall correctly understand and handle the relationship between government and market and improve the national legislative system, administrative system and technical system for metrology in a comprehensive way.

Thirdly, we shall participate more in international co-governance and take concrete measures to promote metrology both inside and outside of China. The major international activities have been proposed are as below:

- ❖ Host the OIML/APLMF Smartmeter Verification and Type Evaluation Workshop in Changsha
- ❖ Host the 16th International Conference and 55th CIML Meeting in Suzhou in October 2020