



**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 - 2020

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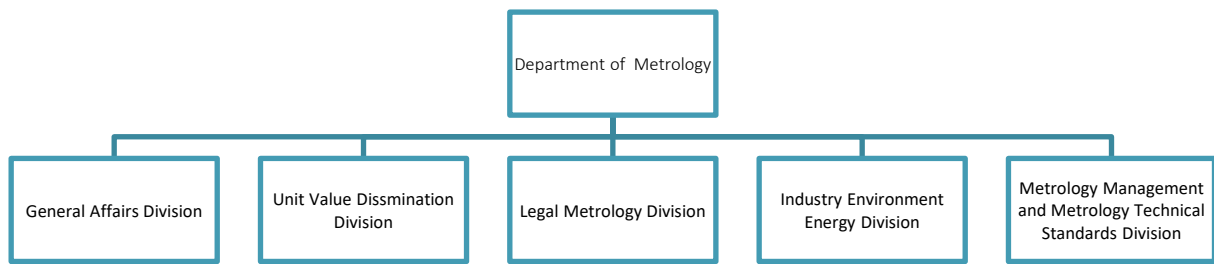
### ***P.R.China***

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

### **Organisation Structures**

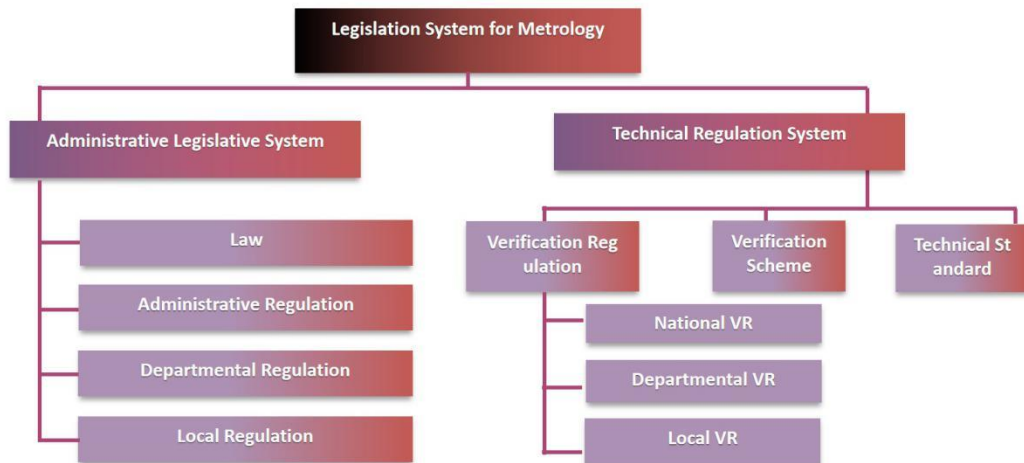
The Department of Metrology of State Administration for Market Regulation (SAMR) P.R. China organizes the implementation of metrological laws and regulations, popularizes legal metrology units, administers and supervises national primary metrological standards, metrology standards and reference materials, 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 behaviour, organizes the verification of metrological arbitration, standardizes social equity metrological service agencies, undertakes the detailed work of OIML.



## Legislative Frameworks

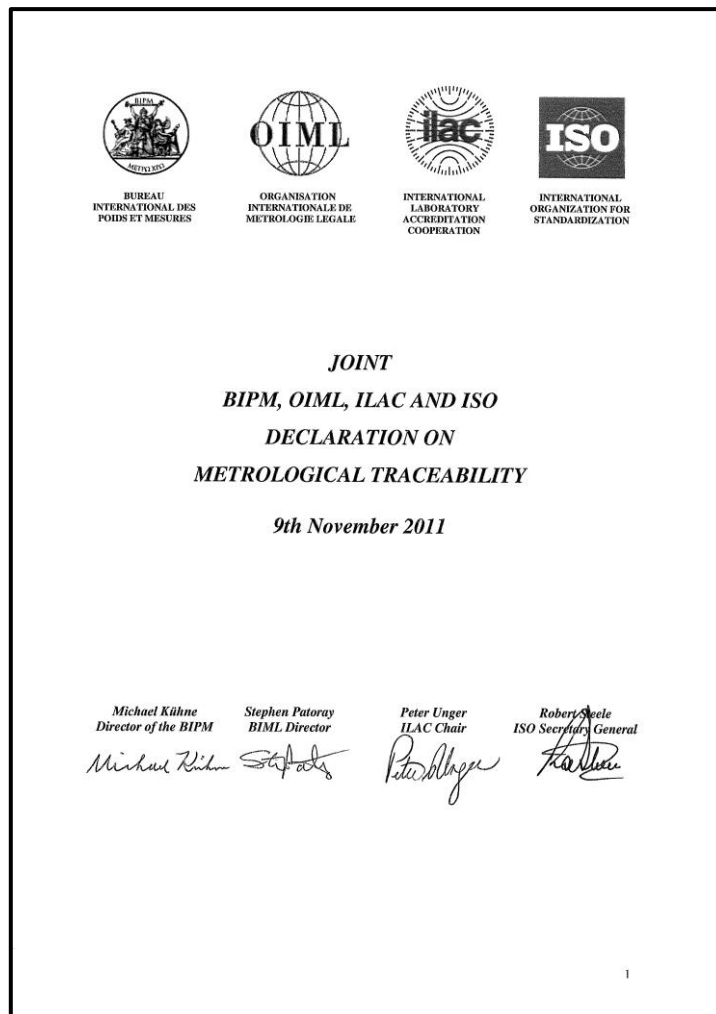
# Metrological System in China

Legislation System for Metrology

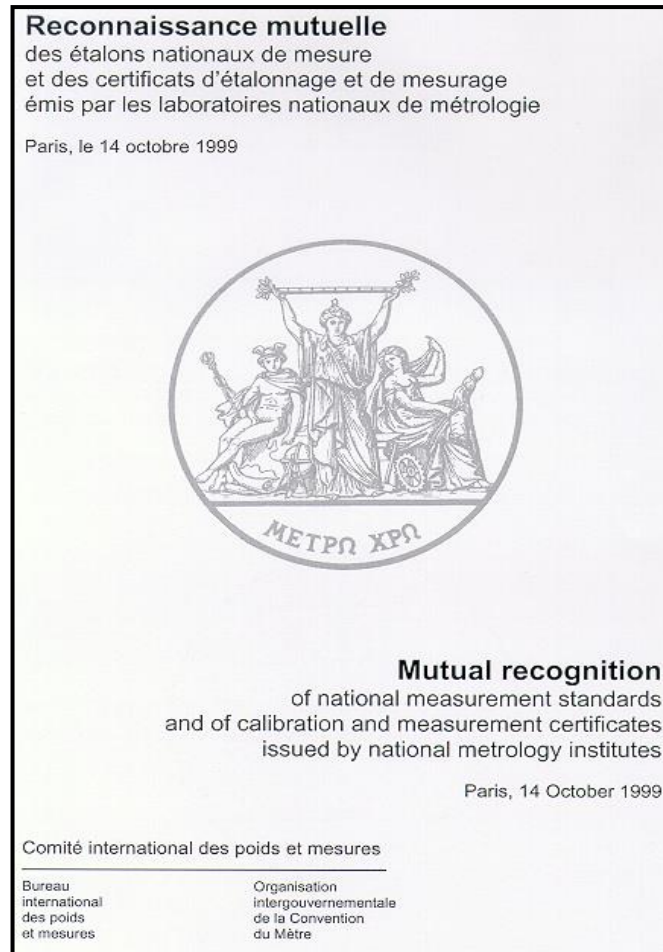


## International arrangements and engagement

- ❖ 《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 2019/20

### Strengthen capacity building, metrology foundation become more solid.

- Verified national measurement standards, released the "People's Republic of China National List of measurement standards".
- Launched on-line "National social measurement standards information disclosure system".
- Formulation of the "Rules of the adoption of International documents/recommendation in the area of metrology".
- Issued "2020 Work Plan of the National Metrology and Testing Center of the Region".

### Strengthen the construction of the legal system

- A comprehensive review of existing metrology regulations and regulatory documents.
- Promote reform of the mandatory inspection system, adjust the "Measuring instruments catalog subject to mandatory management".
- Issued "Strengthening the guidance on measuring comparisons".

### Strengthen the application of metrology

- Organize "Metrology services for SMEs" activities “.
- The compilation of nearly one hundred case-studies of metrological boosting enterprises to improve quality and efficiency, to promote the demonstration. Open "Public platform of metrology services for SMEs".
- Issued "Guidance on strengthening the construction of national industrial metrology and testing center" by SAMR.
- Conduct demonstration activities for energy resource metrology services, urge key energy-consuming units to improve energy metrology systems, and promote the construction of online energy consumption monitoring systems.
- Organize market supervision departments across the country to continuously carry out on-site measurement and calibration of temperature metrology equipment in public places. Active in medical equipment measurement and calibration work related to epidemic prevention and control in medical institutions.

### Strengthen the mechanism of metrology system

- Actively promote the establishment of a national inter-ministerial joint meeting system of metrology work.

- Further strengthen the guidance on the construction of metrology technology committee, the development and improvement of national professional metrology technology committee assessment rules.
- Organize the compilation of a new edition of the International System of Units manual (9th edition) and actively work on the implementation of legal units of measurement. Organized World Metrology Day and participated in the collection of scientific epidemic prevention micro-videos.

### **International cooperation**

- Organized and participated in 8 online international conferences, closely followed the important institutional arrangements of the International Metrology Organization and the development and revision of international metrology documents.
- Studying and voting on 9 international recommendations and international documents.
- Deepen metrological cooperation with Lan-Mekong and implement 5 assistance projects.
- So far, China has obtained 1,687 internationally recognized calibration measurement capabilities, ranking third in the world and first in Asia.
- Actively promoted the implementation of the OIML-CS, and guided the OIML TL to successfully pass the international review of R46 energy meters.
- Take the work of APLMF working group of OIML-CS, Utility Meter and Metrological Control System.

## **SECTION 3 – Future focus**

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

- Strengthen the overall metrology planning and strategic research. Actively promote the development of metrology planning in the new era. Make full use of the power of the National Metrology Strategy Advisory Committee.
- Strengthening the system of metrology laws and regulations. Promoting the “National Standard Time Management Regulations Legislation”. Promote "Measurement and Calibration Management Measures" introduced.
- Continue to carry out special supervision and spot checks on the use of metrology units.
- Carry out supervision work in the field of metrology in daily life. Deploy local departments to carry out supervision and inspection in the area.