

Template for OIML Seminar on Metrology Management System

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Government of India

Ministry of Consumer Affairs, Food and Public Distribution Department of Consumer Affairs

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Legal Metrology

Legal metrology is the application of legal requirements to measurements and measuring instruments

OBJECTIVE

To ensure public guarantee from the point of view of security and accuracy of the weighments and measurements.

Constitutional provisions related with Weights and Measures are as follows:

- * Establishment of Standards of Weights and Measures Under UNION LIST Entry 50, (To frame the Act and Rules, Specification of Standards and International Relations, Training in Legal Metrology etc.)
- Weights and Measures except establishment of Standards – under CONCURRENT LIST – Entry 33 A (Enforcement of Legal Metrology)

LEGISLATION

- The Legal Metrology Act, 2009 was implemented w.e.f 1st April, 2011.
- Department of Consumer Affairs is the nodal agency for the implementation of the Act.

The following seven rules have been framed under the Act:

- 1. The Legal Metrology (General) Rules, 2011.
- 2. The Legal Metrology (Packaged Commodities) Rules, 2011.
- 3. The Legal Metrology (Approval of Models) Rules, 2011
- 4. The Legal Metrology (National Standards) Rules, 2011
- The Legal Metrology (Numeration) Rules, 2011
- 6. Indian Institute of Legal Metrology, Rules, 2011
- 7. The Legal Metrology (Government Approved test Centre) Rules, 2013.

HIERARCHY CHART OF STANDARDS AND ITS TRACEABILITY

INTERNATIONAL STANDARD

NATIONAL PROTOTYPE OF STANDARD (Once in 10 years)

REFERENCE STANDARDS (Verification once in 3 years)

SECONDARY STANDARDS (Once in two years)

WORKING STANDARDS (Once in a year)

COMMERCIAL WEIGHTS
(Once in a year)

- Important Provisions under the Act:
- 1: Units of weights and measures to be based on metric system.
- 2: Declarations on pre-packaged commodities
- 3: Approval of model of weight or measure before manufacturing/import
- 4: Prohibition on manufacture, repair or sale of weight or measure without licence.
- 5: Verification and stamping of weight or measure.

'pre-packaged commodity': a commodity
 which without the purchaser being present is
 placed in a package of whatever nature,
 whether sealed or not, so that the product
 contained therein has a pre-determined
 quantity.

- Declarations to be made on every package-
- (i) Name and address of the manufacturer/ packer/ importer;
- (ii) Common or generic name of the commodity contained in the package;
- (iii) Net quantity, in terms of standard unit of weight or measure or in number;
- (iv) Month and year of manufacture/ pack/ import;
- (v) Retail sale price in the form of Maximum Retail
 Price (MRP) Rs..... Inclusive of all taxes;
- (vi) Consumer care details.

- ➤ There are five Regional Reference Standards Laboratories functioning under the administrative control of the Department :-
 - 1. RRSL, Ahmedabad
 - 2. RRSL, Bangalore
 - 3. RRSL, Bhubaneswar
 - 4. RRSL, Faridabad
 - 5. RRSL, Guwahati
- Two new RRSLs are proposed to be established at Nagpur & Varanasi.
- Functions of RRSL:-

To verify the Legal Standards (Secondary and Working Standards) maintained by State Govt. to ensure the correct weighment and measurement in trade and transaction.

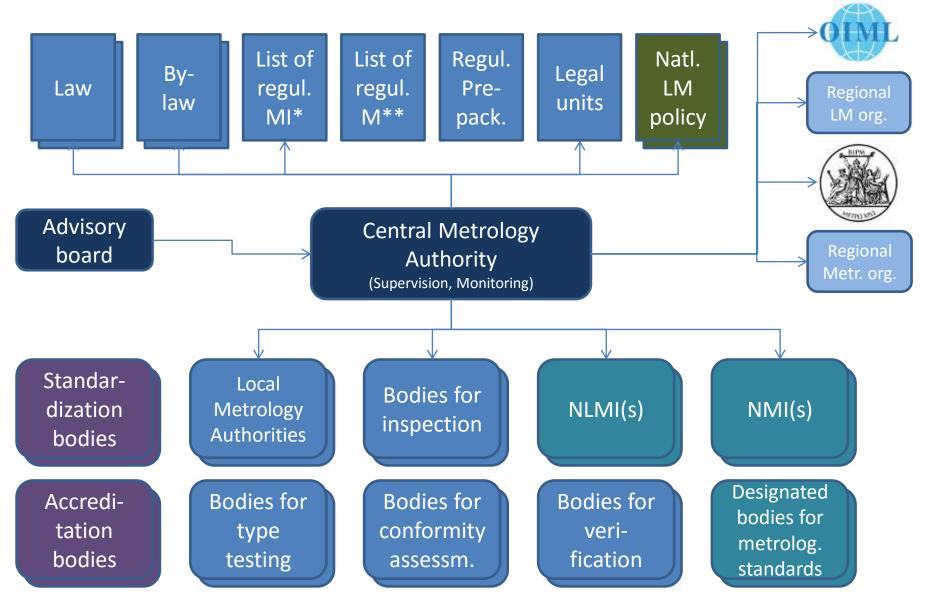
IILM, RANCHI

Indian Institute of Legal Metrology, Ranchi is a National Centre for professional training to the Legal Metrology officers.

It also provides training to the foreign participants of the neighboring /developing countries.

OIML D1

Legal Metrology Management System according to OIML D1



^{*}MI = Measuring Instruments

LM = Legal Metrology

NMI = National Metrology Institute NLMI = National Legal Metrology Institute

1) Questions related to the Central Metrology Authority

Which authority was given the task to be the Central Metrology Authority?

The Directorate of Legal Metrology, under the Department of Consumer Affairs is responsible for the implementation of the Legal Metrology Act and Rules made thereunder. It is the Central Government Authority for the functioning and development of Legal Metrology in India.

Is it responsible for all laws resp. by-laws dealing with metrology? Yes.

Is it responsible for the supervision/monitoring of institutes or bodies?

Yes. However the process of accreditation for Legal Metrology Laboratpories is under Consideration and needs help from OIML and ILAC.

Is it a member of a regional metrology organization resp. regional legal metrology organization?

It is an OIML member authority and Director (Legal Metrology) is the CIML member. Further, it will be highly appreciable to be the member of regional legal metrology organizations.

1) Questions related to the Central Metrology Authority

Is it a member of the metre convention and the OIML? Yes

Is there any advisory board for the Central Metrology Authority? (If yes, how many people from which stakeholder groups are taking part?) For any amendment in the Law a committee representaing all stake holders from Industry, NGOs, Consumer Organisations and State Government s and other Organisationas is formed to make a recommnendation to the Government.

2) Questions related to legal documents

Is there one law or are there several lawing with metrology?

There is only one Act namely the Legal Metrology Act with seven Rules make all together the Law for Legal Metrology. Also there are 36 States/ UTs Rules.

Is there one by-law or are there several by-laws dealing with metrology? There is only one Act with seven Rules dealing with legal metrology.

Is there a list of regulated measuring instruments? (If yes, which measuring instruments are covered?)

Yes. Most of the weights and measures and weighing and measuring instruments covered by OIML are regulated under the Legal Metrology Act and Rules made thereunder.

Is there a list of regulated measurements? (If yes, which measurements are covered?)

Yes, most of the measurements covered under OIML are regulated in India.

2) Questions related to legal documents

Are prepackages regulated?

(If yes, which authorities are responsible for?)

Yes, all types of pre-packaged commodities are regulated under the Legal Metrology Act and the Legal Metrology (Packahged Commodities) Rules, 2011. The Directorate of Legal Metrology with all its Regional laboratories and State Government Legal Metrology Departments are responsible for it.

Is there any legal document related to legal units?

Yes, the Legal Metrology Act and the Legal Metrology (National Standards) Rules, 2011 are related with legal units.

3) Questions related to a national legal metrology policy

Is there a written national legal metrology policy? (If yes, what is covered by this policy? Is it valid for a certain time period?) Yes, all types of weights and measures and weighing and measuring instruments used in transaction and protection are covered under the policy with all types of pre-packaged commodities.

Who is responsible for the development of the national legal metrology policy? Central Government with Directorate of Legal Metrology is responsible for the development of the national legal metrology policy.

Which interested parties took part in the development?
All stakeholders viz. Central Government, Directorate of Legal Metrology, State Government Authorities, Industries, Consumer Organisations took part in the Development.

4) Questions related to National Metrology Institutes

Is there a National Legal Metrology Institute?

The Directorate of Legal Metology works as National Legal Metrology Institute in India.

Or is the National Metrology Institute responsible for Legal Metrology, too?

No, for all matters related with Legal Metrology the responsibility lies with the

Directorate of Legal Metrology, however, the National Physical Laboratory is given the
responsibility to maintain the National Standards.

Or is there another institution responsible for Legal Metrology?

No, apart from Directorate of Legal Metology there is no institute responsible for Legal Metrology

What are the tasks of the responsible institute resp. institution in relation to legal metrology?

The National Physical Laboratory, New Delhi is given the responsibility to maintain the National Standards.

Are there any Designated Institutes dealing with Legal Metrology?

5) Questions related to all kinds of bodies

Which kinds of legal metrology bodies do exist in your country?

The Government of Union of India is wholesole responsible for establishment of Standards and the responsibility of enforcement of weights and measures laws lies with Union as well as State Governments. There are Regional Reference Standards Laboratories functiong under the Union Government which works as a link between National and traders weights and measures.

What are there specific tasks?

Their specific tasks are to frame rules and regulations for weights and measures and to Implement these laws at ground level.

How are they financed? (Are they private enterprises?)

They are financed by the Union Government or the State Governments.

Is there an obligation to demonstrate competence?

Yes, the competence is monitored through the work done and revenue generated.

5) Questions related to all kinds of bodies

Is there any supervision resp. monitoring of such bodies?

Yes, the Union Government and the State Governments regularly monitor the Performance.

Are standardization bodies (or at least one) taking part in the legal metrology system of your country?

Yes, the standardization bodies takes part In the legal metrology system of India.

Are accrediation bodies (or at least one) taking part in the legal metrology system of your country?

Yes, the accrediation body is taking part in the legal metrology system. Even our Legal Metrology officers are the Accessors, who takes part in the assessment of other Laboratories, as per the requirement of ISO/IEC 17025.

6) Questions related to some general topics

How many people are working for the legal metrology management system in your country (CMA, LMA, NMI, NLMI, bodies, etc.)? (To answer this question an estimate is also allowed!)

Approximately 100 persons are working for the legal metrology management system In India.

Are fees for legal metrology services fixed by the state? Yes.

How does your Legal Metrology Management System deal with measuring instruments coming from other countries?

We accept the OIML pattern approval certificate issued by any other OIML member Country and approves the same for National Regulation on the basis of that certificate.

Do you see any need for improvements of your Legal Metrology Management System? Yes, the advanced technology, know-how, transfer of knowledge and capacity building of officers is very much required for the improvements of our Legal Metrology Management System.

6) Questions related to some general topics

Would like to have any support or further information exchange with colleagues concerning specific topics?

Yes, in the field of laboratory testing facility, becoming members of other organisations and capacity building of officers. The further interaction of ISO/IEC 17025 assessors is required for enhancing their capacity to make them at par with the International assessors.

What would you like to discuss with other participants during the group discussions? Better Legal Metrology management and implementation system.

Raising awareness of metrology

How important do you think of rasiing awareness of metrology? It is important to reach upto the level of common people.

Which way do you think is most efficient to do so?

Please list top 3

Digital Media, Print Media and Workshops and Seminars

What is your sucessful story?

Please list top 3

We have successfully implemented the metric system, equipments covered under the National Regulation and OIML recommendations.

What do you expect to learn from others?

Please list top 3

Better Quality measurement system

Training course or seminar topic mostly needed in near future

What subject do your urgent need for training?

Please list top 3

Testing of sphgymomanometer, PNG (piped gas meters) meters, Automatic Rail weighbridge Which seminar topic do you care for the most?

Please list top 3

Development of Legal Metrology System, Management and Packaged Commodities

Speak of capacity building, what is the strongest needs of your organization?

Please list top 3

NAWI, Mass measurement, Dispensing pump

Other request?

To get OIML MAA Certification

