



**Forum: Metrology – Trade Facilitator
Request for support**



UKRAINE

Core Problem:

According to the plans of governmental body of Ukraine, for providing economics, sale and science with reliable measurements and objective test national standards are created on all kinds of measurements. They provide unity of measurements in the country and also, through comparisons, connection with international standards and standards of other countries. However, this work isn't completed yet and many problems of technical standard equipment, conditions of their exploitation and also extension of service range, offered at standards, should be solved.

Significance of the problem:

As far as some problems aren't solved yet, the service level on some standards is lower than it should be in the international practice and consumers don't get reliable and well timed information, it concerns the standards of time and frequency and the service of time and frequency created on its base, which is necessary for consumers, standards of electrical and optical quantities based on cryogenic technique and also standards of mass and related quantities.

What is needed:

For solving the problems of increasing the level of metrological service on national standards there should exist supporting in providing with financial and technical resources.

- 1 In the field of electrical and temperature measurements:
To support the effort of the institute in creating a cryogenic laboratory and necessary equipment for the exploitation of created standards, units of Volt on Josephson effect, Candela, and creating the standard of resistance on Hall quantum effect.
- 2 To support the certification testing laboratory for electromagnetic compatibility (EMC), according to "Technical regulations on confirming correspondence of electromagnetic compatibility" of Ukraine, according to European Union Directive 89/336/EEC.
 - test equipment;
 - provision of normative documents on conducting EMC tests;
 - training of specialists in the field of EMC tests.
- 3 In the field of time and frequency measurements:
 - 3.1 To support with consultations in solving the problem of standard and receiver choice.
 - 3.2 To support the effort of the institute in buying:
 - caesium frequency standard (HP type HP 5071A);
 - time signal receivers CPHC GLONASS and GPS (3S Navigation type R-100/30 or Astech Z12-T).
- 4 In the field of mass quantities and other quantities:
To support the effort of the institute in buying of:
 - 1 kg platinum-iridium alloy weights
 - measurement systems (Hommel TESTER T8000)
 - measurement microscope (TESA)
 - relative gravimeter (SCINTREX)

Contributions:

To achieve the intended purpose the institute has information and energy resources and also suitable apartments, as well as financial and technical resources for solving the intended problems.

Whom to address:

During the Forum:

After the Forum:



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