

PTB in brief

A globalized international economy calls for globalized metrology. This is why the orientation and impact of PTB, the National Metrology Institute of Germany, is not restricted to national borders.

In fact, with its 2,000 staff members, PTB is a global player in the world of metrology, and it therefore addresses its resulting responsibility for society, industry, and science.

PTB's international responsibilities include collaboration with other members in a variety of metrological organizations (the Meter Convention being the most prominent example) and cooperation with national metrology institutes worldwide. Furthermore, PTB International Technical Cooperation advises and supports both the conceptual design and the practical implementation of the establishment of quality infrastructure in developing and transition countries.

The clients of Technical Cooperation projects include the Federal Ministry for Economic Cooperation and Development (BMZ), which finances the majority of projects with PTB participation, but also the European Union, the World Bank, and other organizations. A network of strategic partners is available for project implementation.

Overall, PTB's global networking activities have one major objective: the international harmonization and mutual acceptance of quality infrastructure.



Project Data

Quality Assurance in Environmental and Food Analysis in Indonesia

Source of finance

Federal Ministry for Economic Cooperation and Development, Germany

Commission value

1,100,000 EUR

Implementing agency

Physikalisch-Technische Bundesanstalt (PTB)
National Metrology Institute, Germany

Term

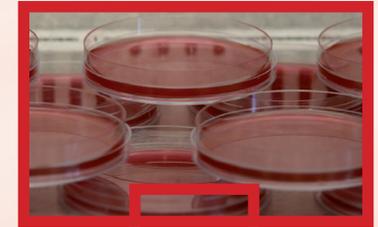
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Quality assurance in
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analysis in Indonesia

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kerja sama
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Background

Important decisions, especially in the field of environmental protection and food safety, are often taken on the basis of measurement results which have been obtained by means of chemical analysis. The data on which these decisions are based must therefore be reliable and trustworthy. For commercial trade, it is essential that analytical results are accepted without tedious re-measurements. Due to the increased importance of the results of chemical analyses for society, economy and science, the field of Metrology in Chemistry (MiC) is strongly promoted in all industrialized countries and also in numerous countries in transition.

In Indonesia, the creation and development of a national MiC infrastructure is still in its beginnings. Recently, the Research Centre for Chemistry (RCChem-LIPI) – as the designated institute (DI) of the Indonesian Institute of Sciences (LIPI) – was assigned the responsibility for Metrology in Chemistry. RCChem-LIPI as well as relevant partner institutions are, however, not yet able to fully fulfill these complex tasks.

The project supports the setting-up of a network of leading state laboratories (under the coordination of RCChem) in order to develop initial structures in the field of MiC and to ensure Indonesia's international integration.



Objective

The aim of this project is to strengthen the structural framework of MiC in Indonesia in the fields of environmental protection and food safety based on a reliable and internationally integrated quality infrastructure.



Components of Support

Together with relevant stakeholders, the following fields of intervention were identified to strengthen the national MiC:

Strengthening the basic MiC infrastructure

To support the development of a national network of laboratories in the field of Metrology in Chemistry.

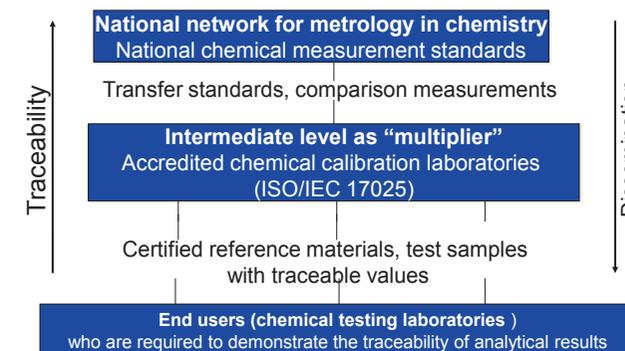
Awareness-raising

To provide information and raise the awareness of stakeholders on concepts and tools of quality assurance in environmental analytics.

Metrological traceability

To increase the availability of internal and external quality assurance tools, such as reference materials and proficiency tests.

Structure for a Chemical Measurement Traceability System



International integration also plays an important part to facilitate the integration of national network partners in Metrology in Chemistry into the international system.

National Implementation Partners

- Indonesian Institute of Sciences (LIPI)
- Research Center for Chemistry (RCChem LIPI)

