Physikalisch Technische Bundesanstalt
Braunschweig und Berlin

Mongolia

Integrated raw material initiative

"Promotion of the quality infrastructure paying particular attention to the raw material sector"

Summary of the Evaluation Report

Project Data

Project No.:	2010.2255.7
PTB No.:	95067
German Contribution:	EUR 250 000.-
Period :	August 2011 to July 2014
Evaluation Period:	25-28 March 2014
PTB Working Group:	Q.52 Asia
Project Coordinator:	Kai Stoll-Malke / Corinna Weigelt
Evaluator/s:	Niels Ferdinand

This report was elaborated by independent evaluators for the PTB. It reflects exclusively the evaluators' opinions and conclusions.

Project Description

Since August 2011, PTB, the German National Metrology Institute, has been implementing a project in Mongolia on behalf of the German Ministry for Economic Cooperation (BMZ) with the objective to initiate a reorientation of the Mongolian Quality Infrastructure with a special focus on the raw material sector and the creation of the required technical competences in selected fields. The project is part of the Integrated Mineral Resource Initiative (IMRI) Program of the BMZ. The main implementing partner is the Mongolian Agency for Standardization and Metrology (MASM) with the „Department for Metrology“ and the „Department for Standardization and Technical Regulation“.

Objective:

The prerequisites for the creation of a demand and market oriented offering of internationally recognized QI services for Mongolian, German and foreign companies, who are active in the raw material sector or close to it, are improved.

Indicators:

- A national policy supporting the development of the quality infrastructure is a key element of official Mongolian development strategies and is implemented.
- Selected European Standards in the raw material sector are available as Mongolian Standards and are applied.
- A selected national metrology laboratory is prepared for an internationally recognized accreditation according to ISO 17025.

Target Group:

The target groups of the project are the owners, managers and employees of small and medium-sized private enterprises (SME) in the raw material sector.

Assessment of the project

Results

Status of the change process

Individual evaluation of effectiveness: 3

- Concrete improvement of one service of MASM.
- Improved knowledge and awareness.
- Only one indicator partly achieved
- Objective partly achieved.

Individual evaluation of impact: 3

- Impact chains are based on logical hypothesis.
- New services in temperature contribute to competitiveness of companies in the sector.

- Other project outcomes may not be related to indirect impacts described in the impact chains.

Individual evaluation of sustainability: 3

- New metrological service of MASM in temperature is durable.
- MASM has defined the accreditation of the temperature laboratory as priority. Anyhow, the financing of the accreditation is not assured.
- The knowledge transfer was based on international experts and has thus a limited multiplier effect.
- Learning on individual, but not on organizational level.

Causes and success factors for the observed results and change processes

Individual evaluation of relevance: 2

- Quality aspects and services of the Quality Infrastructure are very relevant for the Mongolian mineral resources sector.
- Project is in line with public policies to foster the mining sector and to adopt European Standards.
- Concrete needs of the mining sector for services of the QI were only partially identified.

Individual evaluation of efficiency: 2

- Project was cost efficient as a result of the implementation structure.
- Several activities did not lead to the expected results.
- Greater contribution of partner organizations and stronger involvement of national / regional experts would have increased the efficiency.

	Positive aspects	Opportunities for improvement
Strategy	• Use of adequate tools and measures. • Successful knowledge transfer in the MASM temperature laboratory.	• Include a regional laboratory of MASM to be “closer to the sector”. • New thematic focus: Develop QI for Operational Health and Safety in the Mining sector.
Cooperation	• Good coordination with relevant projects of other donors.	• Foster the cooperation between QI and Mining sector. • Support the cooperation with other QI organizations in the region. • Involve national and regional consultants.

Steering Structure	• Overall efficient and effective project implementation.	• Create a more formal steering group with the partners. • Involve a national assistant in the project steering structure.
Processes	• Improvement of processes in national QI-Organizations, especially the MASM temperature laboratory.	• Include consultancy on organizational development.
Learning and innovation	• Important learning on individual level.	• Support persons and organizations in developing services for knowledge transfer.

Learning processes and learning experience

The project resulted mainly in the following learning experiences:

1. The continuation of the project is broadly supported by the project partners and the interviewed stakeholders.
2. The evaluation highlighted the importance of a realistic definition of project indicators and impact chains.
3. Especially in Mongolia it appears important to enable QI organizations to analyze and take into consideration customer needs.
4. The focus on interventions on the meso-level seems reasonable. It is visible, however, that additional services on the micro- and macro-level are necessary. As these services often exceed the scale of PTB projects a systematic cooperation with other donors is needed especially on these levels.

Recommendations

<u>General recommendations for a possible new module</u>

1. It is recommended to focus the possible future module on QI services necessary for improving Operational Health and Safety in the mining sector.
2. Based on currently available information the Ministry of Labor appears to be a suitable political project partner.
3. It is recommended to increasingly foster the coordination and cooperation between QI organizations and the organizations of the mining sector. In this respect it can be useful to support the establishment of a “Forum for Health and Safety in the Mining Sector”.
4. When measures for capacity development are planned it is important to consider enabling people and organizations to transfer the acquired knowledge independently.

5. It seems useful to support the development of MASM's metrological services not only in the capital but also in at least one of the regional offices of the organization.
6. The efficiency of the project could be increased through a stronger inclusion of national and regional experts as consultants.
7. It appears useful to include a national consultant in organizing and following up the project activities.

Specific recommendations for a possible new module

For a possible new module that could be implement by PTB in the context of the IMRI program, the following objective is recommended:

"Selected QI services needed for health and safety in the mining sector in Mongolia were expanded and improved."

In order to achieve this objective the following outputs are suggested:

1. International Health and Safety standards identified as relevant for the mining sector were transferred into the Mongolian standard system.
2. Metrological services of MASM necessary for Health and Safety in the mining sector were improved.
3. Metrological services of a selected regional office of MASM necessary for Health and Safety in the mining sector were improved.
4. New offers for information and training on the aspects quality, health and safety in the mining sector were developed.

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