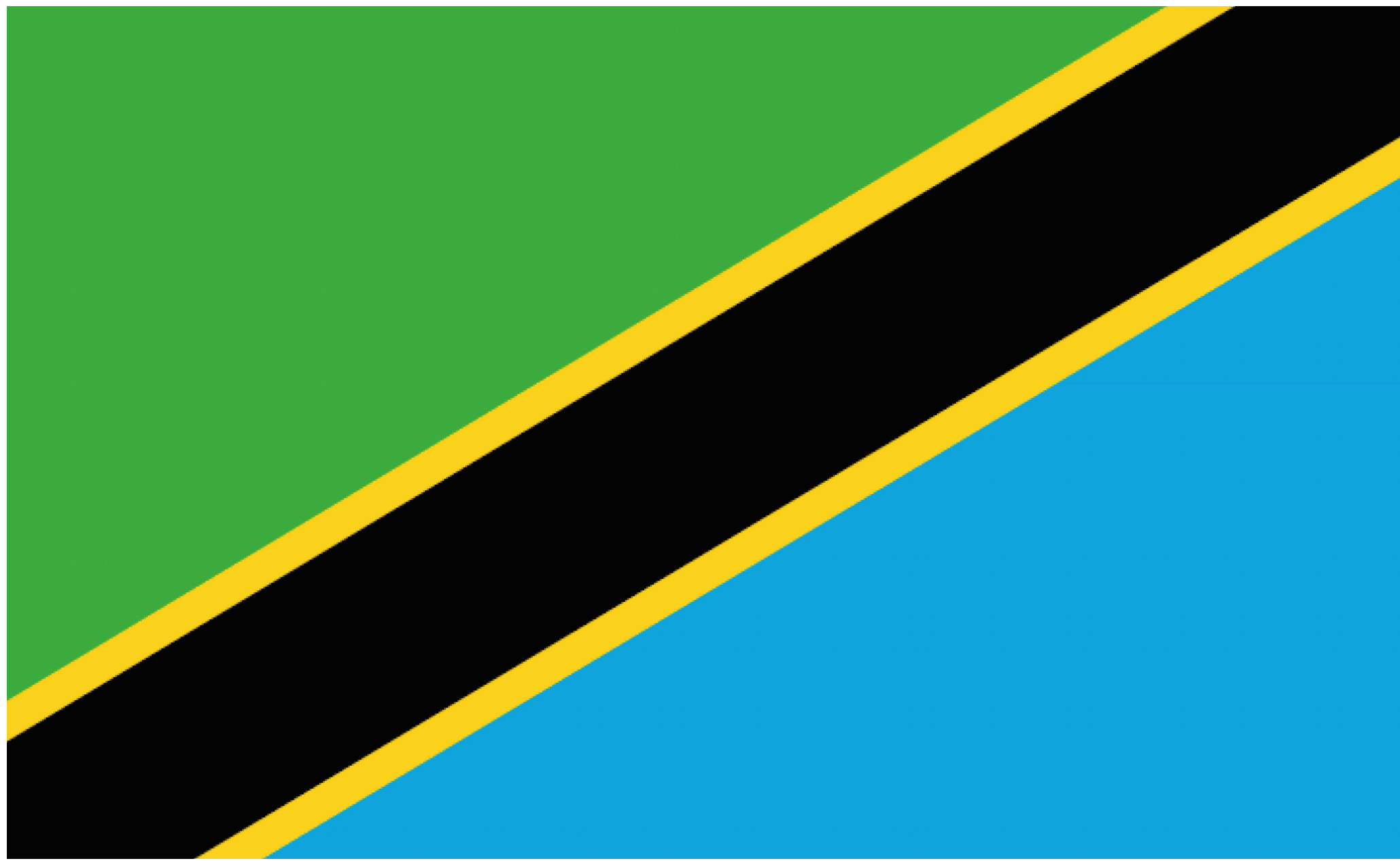


TANZANIA



Training program for Mine water and Tailings management for small and medium scale miners in Tanzania

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INTERNATIONAL TRAINING PROGRAMME 308

Mine Water & Mine Waste Management

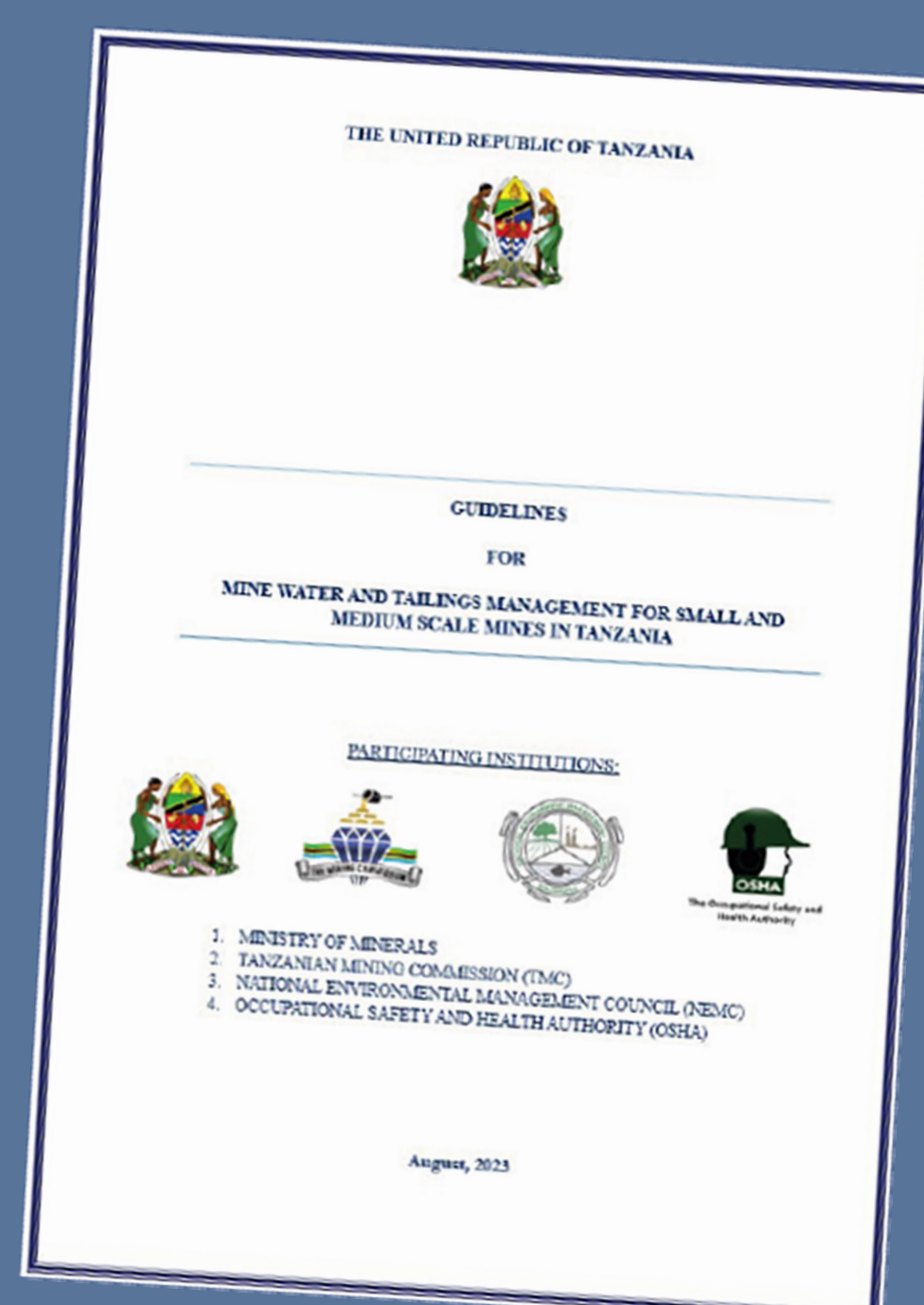


THE CHANGE PROJECT

Numerous small- and medium-scale miners in Tanzania engage in improper waste management practices, whether due to absence of financial resources, technical expertise or awareness of negative impacts such as environment degradation, water pollution or dangers to human health and animals. During the course of the ITP 308 Mine water and mine waste management several groups from Tanzania have worked on a “Guideline for mine water and tailings management for small and medium scale mines in Tanzania”. The need for such a guideline is evident in the absence of knowledge of best practices amongst the mining communities. The various ITP308 groups have provided texts, images, brochures and translations separately, and by the work of the current group, it has all been amalgamated into one final document.



The guideline is planned to be used as a training base for the group six change project, “Training program for mine water and tailings management for small and medium scale miners in Tanzania”. The training program is considered a suitable way to increase awareness and build capacity of small and medium scale miners by implementing best practices, and in extension, promote sustainable mining and environmental protection in the country.



Cover of Guideline for mine water and tailings management for small and medium scale mines.

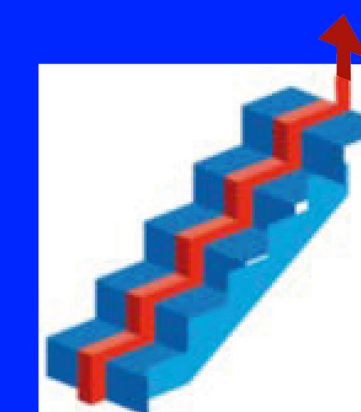


SIGNIFICANCE FOR THE PEOPLE AND THE ENVIRONMENT

By learning about mining, best practices and the impact mining activities and the associated waste may have on the surrounding environment, the miners gain knowledge to ensure a safer working and living environment for animals and humans alike. By doing this, sustainability of the mining sector becomes part of the day-to-day mining in Tanzania.

However, not only the miners will reap the benefits of the guideline and the associated training program. The importance to the participating government organisations is also evident through:

- Enhanced institutional capacity and strategies on overseeing mine water and tailings management
- Increased efficiency in fulfilling core functions in management of sustainable mining operations
- Improved stakeholder collaborations including inter- and intra-governmental opportunities.



RESULTS AND ACHIEVEMENTS

To create a training program in mine water and tailings management the group had to first complete the guideline by amalgamating the different parts created by previous ITP groups, and then create a training program based on the final Guideline. The topics in the training follow the Guideline chapters Permitting procedures, Mine site provision for mineral processing activities, Chemical usage and handling, Water resource management and pollution control, Disposal of tailings and processed water, and finally, Mine closure. The training program explains the topics, the rational behind each topic as well as the foreseen benefits the participants in the training will receive by partaking in the training. It also provides images for better understanding as well as a swahili translated brochure.

Site visits in pilot areas were carried out and despite having financial constraints and struggles with availability of staff for a training session in the Mwanza area, the group managed to hold a smaller pilot session to test the prepared Guidelines in collaboration with the District Environmental Management Officers in the Shinyanga District instead.

To ensure the future adoption of the Guideline and the Training program, the group also lobbied for resources from other entities within the organisations and other projects.



THE WAY FORWARD

To ensure the success of the Guideline and the Training program produced during the ITP 308 as well as to set the stage for the future of sustainable small- and medium-scale mining in Tanzania, the group has connected with the Commissioner for Small Scale Mining, the coordinators for the Mercury Abatement Program as well as management of the Bulyanhulu Gold Mine. A consent note and a final training program is going to be submitted to these organisations in August 2023 with the hope and expectation that additional resources and intra- as well as inter-organizational collaboration will advance best practices and improve the environment in the sector.

Table 1: The Training Program for the Mine Water and Tailings Management for Small-Medium Scale Miners in Tanzania

Sl#	Training Topic	Training Objectives	Delivery System / Methodology	Training Materials	Trainers	Delivery Time
2.1 PERMITTING PROCEDURES FOR SMALL & MEDIUM SCALE MINING						
2.1.1	Application procedures for mineral rights	You will learn knowledge on application procedures for the Primary Mining Licences (PMLs) and Mining Licences (MLs)	Interactive Session	Attachment 1: Guidelines; Attachment 2: Brochure Front & Back	MoM	30min
2.1.2	Permitting procedures for tailings and mine waste disposal	You will learn knowledge on permitting procedures for tailings storage facilities and mine waste disposal	Interactive Session	Attachment 1: Guidelines; Attachment 2: Brochure Front & Back	MoM	30min
2.2 MINE SITE PROVISION FOR MINERAL PROCESSING ACTIVITIES						
2.2.1	Site specific requirements for mineral processing	You will be prepared with knowledge on site specific requirements for processing operations (coordinates, location, size, safe distance)	Lecture	Attachment 1: Guidelines; Attachment 2: Brochure Front & Back	TMC	30min
2.2.2	Site inspection requirements	You will be equipped with knowledge on procedures for site inspection by the Resident Mines Officer, District Environmental Management Officer; and reporting procedures to the Mining Commission	Lecture	PPT Presentations Checklist	TMC/NEMC	30min
2.2.3	Process plant layout plan	You will be equipped with specific skills on different components of the gold processing plants	Illustrations	Attachment 3: Drawings	TMC	1hr
2.2.4	Requirements for Environmental clearance certificates	You will learn knowledge on application procedures for the Environmental Impact Assessment (EIA) for mineral processing operations	Lecture	PPT Presentations Checklist	NEMC	30min

Section of proposed Training program.

Presentations of the program at the NEMC Mbeya Zonal Office has provided commitment to incorporate the training in the Annual Action Plan for SSM Training in the 3rd and 4th quarters of the financial year of 2023.

On top of the above, there are expectations that, at least, the Mining Commission and the National Environmental Management Council will engage in the training long-term and make use of the Guideline once the Training program has been finalised.

The incorporation of the training material and the training program in the mandated, regular work of the participating organisations is one reason for expected success of the Guideline and the Training Program going forward. In addition, it is the hope that future ITP 308 participants will push to do training of trainers, train the mining community and collaborate with previous groups to cement the work in building capacity for a future sustainable small- and medium-scale mining in Tanzania.