



Africa Institute for Environmentally Sound Management of Hazardous and Other Wastes
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**TERMS OF REFERENCE FOR THE DEVELOPMENT OF A NATIONAL OVERVIEW
OF THE ASGM SECTOR, INCLUDING BASELINE ESTIMATES OF MERCURY USE
AND PRACTICES IN ZAMBIA**

1. Background

Africa Institute for the Environmentally Sound Management of Hazardous and Other Wastes (Africa Institute) has been established as an intergovernmental organization based in Pretoria, South Africa to serve as a regional centre for English speaking African countries. It began operating in October 2007. As an intergovernmental organization the Africa Institute is governed by Council comprising all the countries that have ratified and established the agreement.

The AI has been established to build capacity within the English speaking African region to effectively address the management of chemicals and hazardous wastes. The Africa Institute is implementing a project titled “Regional project on the development of national action plans for the artisanal and small scale gold mining in Africa”. The objective of the Convention is to protect human health and the environment from anthropogenic emissions and releases of mercury and mercury compounds and it sets out a range of measures to meet that objective. Participating countries have notified the Interim Minamata Secretariat that mercury emissions from the artisanal and small-scale gold mining (ASGM) sector is more than significant in their respective territories.

This project is aimed at assisting participating countries to develop National Action Plans to reduce the use of mercury and mercury compounds in, and the emissions and releases to the environment of mercury from, artisanal and small-scale gold mining and processing in accordance to Annex C of the Minamata Convention. By developing their National Action Plans participating countries are complying with the text of the Minamata Convention and are enabled to implement it. The participating countries, Burundi, Republic of Congo, Central African Republic, Kenya, Swaziland, Uganda, Zambia, and Zimbabwe will benefit from new and updated information about the use of mercury in the ASGM sector in the country and from increased capacity in managing the risks of mercury emitted and released from such activity. The sharing of experiences and lessons learned throughout the project is also expected to be an important contribution to other similar countries and foster cooperation for future implementation of the NAPs.

The goal of the project is to contribute to the implementation of the Minamata Convention through the reduction of the risks posed by the unsound use, management and release of mercury in the Artisanal and Small-Scale Gold Mining sector. The NAP has four components, which consist of the activities indicated below. Each component includes information on project activities, outcomes and outputs.

1. Component 1: Regional information exchange, capacity building and knowledge generation
2. Component 2: Establishment of Coordination Mechanism and organisation of process
3. Component 3: Develop a national overview of the ASGM sector, including baseline estimates of mercury use and practices
4. Component 4: Develop, endorse and submit to the Minamata Convention Secretariat a NAP on ASGM

This consultancy falls under component 3 that relates to the development of a national overview of the ASGM sector, including baseline estimates of mercury use and practices. The study will be conducted in Zambia and will be supervised by the Zambia Environmental Management Agency and the Africa Institute. It is funded by UN Environment. The Africa Institute is thus seeking the services of a qualified consultant to undertake a study in Zambia.

2. Objective of the Consultancy

The overall objective of this consultancy is, using the methodology developed by UN Environment, under component 1 (global component) establish a Zambian national overview of the ASGM sector, including baseline estimates of mercury use and practices and thus get a full understanding of comprehensive information of the national ASGM sector and enable Zambia to develop NAP in compliance with the Convention.

3. Scope of work and Tasks

The baseline information necessary to develop a national overview of the ASGM sector in Zambia will be gathered through:

1. Desk study that will entail compiling all available information on ASGM. The desk study will be complemented by the interviews with the key stakeholders at the national, regional and local level.
2. Field visits at the selected ASGM sites in the country in order to collect more in depth information via interviews with mining community, observations and physical measurements. .

The consultancy will, using the methodology developed under the global component, gather national information on:

- a) Legal and regulatory status of ASGM in Zambia;
- b) Baseline estimates of mercury emissions and releases from the ASGM sector;
- c) Structure of the ASGM sector (i.e., single family miners, community mines, etc.);
- d) Policies surrounding ASGM;
- e) Geographic distribution of ASGM in Zambia;
- f) Economics, such as earnings per capita, mercury supply, use and demand, information on gold trade and export, cost of living, and access to finance for miners. The project will search in particular for information about gender and children aspects of the ASGM economics;
- g) Size of the formal and informal ASGM economy;

- h) Information on mining practices, including information on ore bodies exploited, processes used, the amount of mercury used, the number of people directly involved in ASGM and indirectly exposed to mercury (disaggregated by gender and age);
- i) Information on gold processing practices/burn off of mercury in gold processing shops or community retorts;
- j) Known information on overall environmental impacts, contaminated sites, mercury releases in soil, air and water;
- k) Studies and other information on mercury exposure, through various media, and studies on impacts in ASGM communities and downstream communities. The project will search for known information desegregated by gender and age;
- l) Information about access to basic education, health care (including health effects of mercury exposure) and other services in mining communities;
- m) Information about access to technical assistance for miners in Zambia;
- n) Leadership and organization of ASGM at national and local levels.
- o) Experiences in addressing ASGM;
- p) Information gaps at the local and national scale that can be addressed;
- q) Known information about the influence of ASGM practices and policies in neighbouring countries.

The consultancy team is expected to:

1. Attend the field ASGM training on how to develop baseline estimates and national overview of the ASGM sector as part of the NAP, conducted by Africa Institute and International expert.
2. Conduct desk research on available information on ASGM sector in the country, according to the categories listed above.
3. Plan field trip (e.g. choose areas to visit, schedule trip, etc.) and make needed logistical arrangements, in coordination with the National Project Coordinator and Africa Institute.
4. Collect and analyse data during field research trips (e.g. visit mining sites, interview miners and their families, etc.), based on UN Environment toolkit and NAP guidance document.
5. Supervise and coordinate the work of the inventory research assistant(s) hired to support the data collection in the field.
6. Develop a draft and finalize national overview of the ASGM sector, including baseline estimates of mercury used and practices employed (ready to be integrated in the NAP document) and develop problem statement list.

4. **Output Deliverables**

1. Draft Report “National Overview of ASGM sector” detailing a full understanding of national ASGM that in turn will enable the participating country develop NAP in compliance with the Convention.
2. Final Report “National Overview of ASGM sector” detailing a full understanding of national ASGM that will enable the participating country develop NAP in compliance with the Convention.

5. **Budget**

The Consultant has to present a detailed budget (in US Dollars) for carrying out the tasks of the study. The budget should include the costs in relevant categories, such as consultancy fees, travel expenses, per diems as well as all other expenses in detail.

6. **Required Skills and Experience**

The following will constitute the national team of experts for the consultancy:

1. Technical consultant (team leader) with experience in mining/ASGM/environmental impacts in Zambia.
2. Public health consultant that will lead the public health strategy component.
3. Policy/governance/legal consultant that will review legal and institutional framework around ASGM and be involved in setting formalization strategy.
4. Socio-economic expert that will collect socio-economic data and assist with setting strategies around that area.

6.1 ***Team leader***

1. Minimum educational background: Master's degree in Mining, Geology, Environmental Management/Science, Natural Science, etc.
2. A PhD in the above fields will be an added advantage.
3. Professional experience in the mining sector and preferably understanding of the ASGM sector and its various components: mining, processing, economics, environmental and health impacts, etc., (at least 10 years of working experience)
4. Experience conducting field research (social and/or technical)
5. Experience working with remote rural communities and labour associations
6. Past consulting experience in related topic will be an added advantage.
7. Knowledge of Zambian national, regional and international legislations including on international conventions will also be an added advantage.
8. Skills in data acquisition and management, and basic knowledge of the scientific method
9. Good problem-solving skills, open minded, able to take initiative and be proactive in daily tasks.

6.2 ***Team members***

1. Minimum educational background: Degree in Environmental Management/Science, Public Health, Law, Policy, Natural Science, Economics, Resource Economics etc.
2. Professional experience in the dealing with communities and other vulnerable groups mining sector with special emphasis in ASGM (at least 5 years of working experience).
3. Past consulting experience in related topic or dealing with multilateral environmental agreements will be an added advantage.
4. Knowledge of national, regional and international legislations including on international conventions.
5. Skills in data acquisition and management, and basic knowledge of the scientific method

6. Good problem-solving skills, open minded, able to take initiative and be proactive in daily tasks

7. **Time Frame and Reporting**

The contract will start as soon as possible from **October 2017**.

8. **Submission of Proposals**

All interested and qualified consultants must submit their expression of interest not later than **16.00 local time, Friday September 29, 2017**. All proposals must be submitted in a sealed envelope, marked **'NAP ASGM ZAMBIA – Component 3 Consultancy'** to the following address:

Attention:

The Projects Coordinator
Africa Institute
Environment House
Soutpansberg Road and Steve Biko Street,
Private Bag X447
ARCADIA, Ext 6
0001
Pretoria
SOUTH AFRICA

Each proposal should contain the following information:

1. Signed **separate** technical and financial proposals, submitted in **separate** sealed envelopes. Financial elements must include details on the bidder's calculation in form of a price schedule while Technical elements must include a description of the services and the scheduled working methods, a time schedule for the individual measures to be implemented with the earliest possible date for commencing the work, dates for the completion of steps of the project and alternatives for the dates where appropriate.
2. A personnel assignment plan with details of the personnel to be engaged in the individual fields of work and their periods of assignment and on the position to be held by the individual experts in the project
3. Curricula vitae (CVs) of the experts designated for the project.

All queries should be addressed to Mr. James Mulolo by emailing him on jmulolo@environment.gov.za or telephone 0027123999866.