



ZEMA

**REQUEST FOR EXPRESSION OF INTEREST (EOI)-OPEN INTERNATIONAL
(CONSULTING SERVICES – FIRMS SELECTION)**

Name of the Assignment: The consultancy to conduct an Environmental Incident Impact Assessment, Recommendation for Remediation and Restoration following the failure of tailings dams at Sino Metals Leach Zambia Limited that led to the discharge of an Acidic Leach Residue into the surrounding open environment, the Chambishi Stream, Mwambashi River and Kafue River.

Reference No: ZEMA/CS/RFP/09/07/25

Issuance Date: 10th July, 2025

The purpose of this proposed consultancy is to conduct a comprehensive assessment of the extent and severity of the environmental and socio-economic consequences of the acidic leach residue by Sino Metals Leach Zambia Limited and prescribe appropriate mitigation, remediation and restoration measures in the pollution affected areas. The overarching goal is to restore the affected areas into a safe and sustainable state complying to national and international environmental standards and addressing the concerns of affected communities.

THE OBJECTIVES OF THE ASSIGNMENT

The objectives of the assignment are as follows:

1.1 Biophysical Assessment:

- a) To identify the pollutants, present in the environmental media including soil, water, sediments, plants and air in the affected areas and determine their concentrations;
- b) To assess the spatial extent and magnitude of contamination caused by the tailing spills into the open environment, water bodies including wetlands;

- c) To identify and assess the immediate and future impacts and risks related to soil, sediments, surface and groundwater, biodiversity and air;
- d) To assess the impact of the pollution on infrastructure and equipment in the affected areas including downstream facilities; and
- e) To evaluate the environmental impacts on the Chambishi Stream, Mwambashi River, Kafue River and their respective ecosystems.

1.2 Socio-economic Assessment:

- a) To evaluate the potential social and economic impacts on the affected entities and communities;
- b) To conduct an valuation of the affected area including but not limited to land, fisheries, livestock, agriculture, tourism, culture, heritage sites, and any other ecosystem service affected by the pollution; and
- c) To conduct a detailed human health, livestock and aquatic life risk assessment.

1.3 Mitigation and remediation:

- a) To recommend appropriate remediation and restoration measures for the affected areas;
- b) To develop an implementation plan for remediation that will focus on reducing or eliminating contamination levels in the affected water bodies and surrounding areas;
- c) To develop a comprehensive monitoring and evaluation plan for the environmental aspects which shall include water, soils, fauna, flora and the general population; and
- d) Sino Metals Leach Zambia to develop an emergency preparedness and response plan to address similar future incidents which shall be reviewed by the Consultant.

2 SCOPE OF WORK

The scope of work will include environmental incident assessment, sampling and testing of environmental media, developing plans for mitigation, remediation and restoration.

The area of interest is from the point of discharge (Sino Metals Tailings dams), where the discharge of the acidic leach residue spilled into the open environment and along the Chambishi Stream, Mwambashi River and Kafue River. It will also include upstream stretches as control points and downstream stretches to Itezhitezhi dam.

The scope of work will include the following:

2.1 Preliminary Review of Technical and Regulatory Information

- i. To carry out a comprehensive desk review of existing data and reports relating to public and animal health, environmental monitoring, mineral processing operations, water quality, relevant permits and licenses, relevant to the assignment; and
- ii. To carry out a comprehensive review of the relevant policies and legislation related to the assignment.

2.2 Environmental sampling and analysis:

- iii. To develop a sampling plan (baseline and post pollution) in line with national and/or international standards;
- iv. To collect samples from affected environmental media;
- v. To facilitate laboratory analysis for relevant pollutants;
- vi. To align laboratory findings with national and/or international environmental regulations and standards;
- vii. To ensure quality control/quality assurance during sampling and analysis; and
- viii. To ensure traceability of results from all activities conducted.

2.3 Public health and livelihood assessment

- i. To assess potential or observed health impacts on nearby communities due to water and soil contamination or exposure to other toxic substances;
- ii. To conduct an assessment with affected populations regarding access to clean water, loss of livelihood (e.g., fishing, livestock and crop farming) and health complaints;
- iii. To collaborate with local health authorities to document health incidents or outbreaks;
- iv. To assess potential damage to public and private equipment and infrastructure caused by the acidic leach residue in the affected areas; and
- v. To assess extent of the impact of the incident to assist in determining a comprehensive compensation plan.

2.4 Ecological impact assessment

- i. To identify damage to aquatic and terrestrial ecosystems, including species mortality and habitat disruption; and
- ii. To assess ecological recovery potential and need for restoration.

3 DURATION OF THE ASSIGNMENT

This assignment is expected to be completed within four (4) calendar months after signing of the contract.

INVITATION

The Zambia Environmental Management Agency invites interested and eligible Consulting firms ("Consultants") to indicate their interest in providing the Services. Interested Consulting firms should provide information demonstrating that they have the required resources, qualifications and relevant experience to undertake the assignment.

ELIGIBILITY CRITERIA

The expression of interest must include the following minimum information:

- i. Legal status of the company, including Certificate of Incorporation and Articles of Association or Memorandum of Association;
- ii. Evidence showing the technical expertise of the firm in carrying out similar assignments based on past/historical assignments in the past 10 years (attach Company profile);
- iii. Latest and valid tax clearance certificate;
- iv. Valid Social Security Compliance Certificate;
- v. International consulting firms **must partner** with **citizen bidders** to be **deemed eligible**;
- vi. Must demonstrate appropriate managerial, organizational capability and reliability;
- vii. Must demonstrate financial capability by providing financing evidence supported by reference letters or financing agreements from credible financial institutions or banks;
- viii. Availability of appropriate skill by providing curriculum vitae of key personnel to be involved and other relevant particulars to demonstrate adequate professional and technical qualifications;
- ix. List of references for the similar works undertaken including names of the institutions and contact details;
- x. All documentation must be prepared and submitted in English language; and
- xi. Experience of working in a developing country on similar assignments will be an added advantage.

The method of Selection shall be 'Open International Selection' as stated in the Public Procurement Act No. 8 of 2020 as amended by the Public Procurement Act No. 17 of 2023.

The Zambia Environmental Management Agency now invites eligible consulting firms to express their interest in providing the consulting services.

Expressions of interest must be delivered in a written hard copy form to the address below (in person, or by mail) or electronically to the email addresses below by **18th July 2025**, at **16:30** hours local time.

Only shortlisted and vetted firms will be provided with the detailed ToRs and requested to submit proposals.

The Director General

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