



Terms of Reference

ENVIRONMENTAL IMPACT ASSESSMENT (EIA), ENERGY AUDIT, STAKEHOLDER ANALYSIS, AND WASTE SOURCE IDENTIFICATION

1. BACKGROUND

The Kenya Private Sector Alliance (KEPSA) is the apex body of the private sector in Kenya, dedicated to driving competitive and sustainable economic growth. KEPSA represents a diverse membership, including large corporations, SMEs, and Start-Ups, and collaborates closely with the Government and other stakeholders to promote economic development. KEPSA currently boasts a membership of over 500,000. Sustainable Inclusive Business Kenya (SIB-K), the knowledge centre under KEPSA, is committed to driving positive change through inspiration, initiative, facilitation, and connection. SIB-K's mission is to support businesses in adopting sustainable practices that harmonize People, Planet, and Profits.

2. THE ASSIGNMENT

KEPSA, through its knowledge centre, is embarking on a feasibility study with the objectives of piloting biogas (energy) production using fish waste and treating wastewater from the production process. This feasibility study aims to evaluate the viability of a fish farm utilizing fish waste, with a focus on reducing environmental pollution, mitigating climate change impacts, and fostering sustainable resource use. The wastewater treatment technology proposed is expected to remediate fish processing wastewater, creating a nutrient-rich water source for farming, enhancing fish health and quality, and boosting overall fish farm productivity and profitability.

3. OBJECTIVE

The primary objective of this Terms of Reference is to delineate the requirements and scope for conducting an Environmental Impact Assessment (EIA), Energy Audit, Stakeholder Analysis, and Waste Source Identification for the installation of a water treatment and biodigester at a fish farm. The assessment seeks to achieve the following:

- Identify and assess potential environmental impacts associated with the project.
- Analyze stakeholders' interests, concerns, and engagement strategies.
- Identify sources of waste related to the water treatment and biodigester.
- Conduct an energy audit to evaluate energy consumption and efficiency.
- Collect and analyze samples in the laboratory to assess potential water pollution, greenhouse gas emissions, and energy-related impacts.

3.0 Scope of Work

3.1 Environmental Impact Assessment (EIA)

The EIA component shall encompass, but not be limited to, the following tasks:

3.1.1 Scoping

- Conduct a scoping exercise to identify key environmental parameters, stakeholders, and potential impacts.
- Define the scope and boundaries of the EIA study.

3.1.2 Environmental Impact Assessment

- Identify and assess potential environmental impacts associated with the installation of a water treatment and biodigester.
- Evaluate potential water pollution and greenhouse gas emissions linked to the project.
- Propose mitigation measures to minimize adverse impacts.

3.2 Energy Audit

The Energy Audit component shall involve:

3.2.1 Energy Consumption Analysis

- Evaluate the project's energy consumption and efficiency.
- Identify areas for potential energy savings and efficiency enhancements.
- Recommend energy-saving measures and sustainable energy alternatives.

3.3 Stakeholder Analysis

The Stakeholder Analysis component shall cover:

3.3.1 Identification of Stakeholders

- Identify and compile a comprehensive list of relevant stakeholders, including community members, regulatory authorities, and local businesses.

3.3.2 Stakeholder Engagement

- Analyze stakeholders' interests, concerns, and expectations regarding the project.
- Develop a stakeholder engagement plan outlining strategies for effective communication and involvement.

3.4 Waste Source Identification

- Identify sources of waste generated by the water treatment and biodigester processes.
- Assess the types and quantities of waste produced.

3.5 Laboratory Analysis

- Collect representative samples of wastewater, waste materials, and energy-related systems.
- Conduct laboratory analysis to assess sample composition and potential environmental impacts, including energy-related effects.

4. DELIVERABLES

The consultant(s) shall provide the following deliverables:

- A comprehensive Environmental Impact Assessment (EIA) report, including mitigation recommendations.
- An Energy Audit report detailing findings, energy-saving recommendations, and sustainable energy options.
- A Stakeholder Analysis report accompanied by a stakeholder engagement plan.
- A report identifying sources of waste generated by the project.
- Laboratory analysis reports, including assessments of water quality, waste composition, and energy-related systems.

5. SUPERVISION

The Consultant will report to the SIB-K Program Manager and collaborate closely with the SIB-K team.

6. APPLICATION PROCESS

Interested candidates are requested to submit the following:

- Technical proposal, including resumes of the technical team.
- Description of similar assignments conducted with at least 2 recommendation letters
- Financial proposal.

7. STATUTORY REQUIREMENTS

Upon request, the consultant SHALL provide all required legal documents as may be required by Kenyan law.

Technical Proposal Requirements.

The Technical Proposal should include the following details:

- A detailed profile of the firm, demonstrating years of experience in operations in the required field
- Details of a similar assignments, with a focus on installation and service of biogas systems
- A description of the proposed approach and methodology including,
 - (i) the individual firm's understanding of the objectives of the assignment,
 - (ii) the approach to be taken to deliver the services, and
 - (iii) the proposed work plan which includes the main activities of the assignment, their content and duration, milestones and report delivery dates.
- Registration with NEMA
- Registration with EPRA

Financial Proposal Requirements.

The following are the financial proposal requirements:

- A detailed breakdown of the proposed fees.
- The Financial Proposal should incorporate prices inclusive of all taxes.

- All prices shall be in Kenya shillings.

Please submit your application to procurement@kepsa.or.ke by 27th October 2023, with the subject clearly indicating “EIA Consultant”

Only shortlisted candidates will be contacted.

Kind Regards,



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