TERMS OF REFERENCE (TOR)
Consultancy for Conducting an Environmental Impact Assessment (EIA) for the Proposed SEMA Electric Mobility Study in Mogadishu, Somalia

1. Background

Urban mobility in Mogadishu has experienced rapid growth over the past decade, with three-wheeled taxis ("bajajs") becoming one of the most widely used means of public transport and last-mile connectivity. The sector plays a critical role in supporting livelihoods, urban movement, small businesses, and household access to services across the city. The Somalia Electric Mobility Association (SEMA), as a market-building and industry coordination platform for clean mobility in Somalia, intends to conduct this study to inform environmentally responsible, commercially realistic and policy-relevant electric mobility deployment.

Mogadishu's bajaj economy has evolved into a major informal urban transport system. Different estimates indicate that tens of thousands of bajajs operate within the city, serving densely populated corridors such as KM4, Bakara Market, Hodan, Waberi, Yaqshid, Daynile, Hamar Weyne, Hamar Jajab and Kahda. SEMA seeks to generate practical environmental, social, technical and spatial evidence that can guide the design of future electric bajaj, charging infrastructure and battery-management models in Mogadishu.

2. Purpose of the Consultancy

The purpose of this consultancy is to conduct a comprehensive Environmental Impact Assessment (EIA) for the proposed SEMA electric mobility study in Mogadishu and provide evidence-based recommendations that will guide environmentally sustainable project design, market coordination, policy engagement and phased implementation of electric mobility solutions.

3. Objectives of the Assignment

3.1. Overall Objective

The overall objective of this consultancy is to undertake a comprehensive Environmental Impact Assessment (EIA) for the proposed SEMA electric mobility study in Mogadishu in order to generate evidence-based findings and practical recommendations that will guide environmentally sustainable, climate-resilient, operationally feasible and socially responsible electric mobility planning and implementation.

3.2. Specific Objectives

1. Assess the current environmental and urban mobility context in Mogadishu relevant to electric mobility deployment.
2. Map existing bajaj operational ecosystems within Mogadishu, including transport corridors, parking nodes, maintenance hubs, fueling patterns, traffic density areas, and operational hotspots.
3. Identify and analyze the potential positive and negative environmental and social impacts associated with the proposed SEMA electric mobility study and related future deployment pathways.
4. Assess environmental implications related to electric bajaj operations, charging infrastructure, battery systems, battery disposal and recycling, energy demand, electricity load implications, land use, waste generation and management, occupational health and safety, traffic and urban mobility, noise levels,

air quality, climate implications, water and soil contamination risks, hazardous waste handling, and e-waste generation.

5. Assess the environmental implications of lithium-ion battery storage, transport, handling, charging, overheating risks, fire hazards, and disposal systems within Mogadishu's context.
6. Assess the feasibility and environmental implications of establishing charging hubs in different districts of Mogadishu.
7. Analyze risks associated with unreliable electricity supply, informal electricity connections, voltage instability, and generator-dependent charging systems.
8. Assess opportunities for integrating renewable energy and solar-assisted charging systems within SEMA-supported electric mobility models.
9. Assess potential social and economic impacts associated with the project.
10. Develop an Environmental and Social Management Plan (ESMP) with site-specific mitigation measures, monitoring indicators, institutional responsibilities, environmental monitoring systems, battery handling protocols, hazardous waste management measures, occupational safety measures, emergency response systems, environmental incident reporting procedures, and cost implications.
11. Provide strategic recommendations that will directly inform SEMA's final design, stakeholder engagement, policy positioning and phased implementation of electric mobility interventions in Mogadishu.

4. Scope of Work

The consultant shall undertake environmental baseline assessments, stakeholder consultations, technical and environmental risk assessments, legal and institutional analysis, spatial analysis where applicable, and preparation of an Environmental and Social Management Plan (ESMP) for SEMA's proposed electric mobility study.

5. Deliverables

The consultant shall produce:
- Inception Report;
- Baseline Assessment Brief;
- Draft EIA Report;
- Stakeholder Consultation Report;
- GIS/Spatial Mapping Outputs where applicable;
- Draft ESMP;
- Final EIA Report;
- Final ESMP;
- Executive Presentation.

6. Duration of the Assignment

The consultancy is expected to be completed within approximately 6 weeks from the date of contract signing.

7. Reporting and Supervision

The consultant shall report directly to the designated SEMA Project Lead, Secretariat or Management Representative.

8. Required Qualifications and Experience

The consultant/consulting firm should possess advanced qualifications in environmental science, environmental engineering, climate change, sustainability, transport planning, urban planning, or related fields, with at least seven years of relevant professional experience in conducting Environmental Impact Assessments.

9. Proposal Submission Requirements

Interested consultants/firms shall submit:
- Technical proposal;
- Detailed methodology and work plan;
- Financial proposal;
- Company/consultant profile;
- CV(s) of key personnel;
- Examples of similar assignments conducted;
- At least three references.

10. Ownership of Outputs

All reports, datasets, maps, materials, photographs, analytical outputs and deliverables produced under this consultancy shall remain the sole property of SEMA.