



SELECTION OF INDIVIDUAL CONSULTANT

REF: NEMA/RFP/005/2023-2024

Selection of Rainwater Harvesting Expert for GEF 7 funded project on “Strengthening forest management for improved biodiversity conservation and climate resilience in the Southern Rangelands of Kenya”

1.0. Background Information

The Global Environment Facility (GEF)-funded project on “Strengthening forest management for improved biodiversity conservation and climate resilience in the Southern Rangelands of Kenya” will be implemented by National Environment Management Authority (NEMA) in close coordination with the International Union for the Conservation of Nature (IUCN). The project will be implemented over a 4-year period, primarily in Kajiado and Narok Counties. The overarching goal of the project is to support a functioning and resilient dryland forest landscape that supports a sustainable economic/food production through integrated natural management. The project’s overall objective is to restore Southern Kenya dryland forest and rangeland landscape for resilient environment and community livelihoods. This will be delivered through the following specific objectives:

- i. To develop Community enterprises and livelihood value chains based on sustainable use of natural resources in the drylands.

- ii. To improve effective governance of land resources through strengthening of community level organizations, National and County governments.
- iii. Implementation of local resources management and restoration plans by the community units and local Authorities.
- iv. To co-ordinate the management on an integrated dryland landscape knowledge exchange and management platform.

These objectives will be realized through three key components that include;

- 1. Strengthening the enabling environment for the sustainable management of drylands;
- 2. Investment in scaling up sustainable dryland management;
- 3. Programmatic coordination, monitoring and knowledge management.

The project has been designed in careful consideration of the national priorities of Kenya, the needs of the local pastoral Community and the lessons from past and on-going initiatives in similar ecosystems. The proposed holistic approach will link income-generating activities (e.g. livestock marketing, horticulture value chain, eco-tourism) with sustainable environmental management activities. Therefore, the project plans to create a bridge between development needs and environmental activities. By building the communities' capacities and supporting them to derive more benefits from sustainable activities, the project will pave the way for innovations at local or landscape level in terms of natural resources management and conservation.

Stakeholder involvement is recognized as an integral requirement for the sustainability of the project's activities. For successful implementation of the project, the National Environment Management Authority- Executing Agency, and the key stakeholders recognize and embrace the need for direct

involvement by all stakeholders in the project process. The primary stakeholders in this project include:

- Government Agencies at National Level: NEMA and Kenya Agricultural and Livestock Research Organization (KALRO), The Nature Conservancy (TNC), National Environment Trust Fund (NETFUND)
- Government Agencies at County Level: NEMA-Green Points, Department of Agriculture, Livestock and Fisheries, Department of Water, Irrigation Environment and Natural Resources, County Environment Committees
- Civil society organizations: South Rift Association of Landowners (SORALO)
- Private sector: TATA Chemicals, Conservation Capital, Meat Naturally
- International organizations: African Conservation Centre (ACC)
- Research institutions and universities: International Livestock Research Institute (ILRI)

2.0. Objectives of the Assignment

2.1. Overall Objective

To establish water harvesting systems for improvement of water access for communities and livestock related activities.

2.2. Specific Objectives

The specific objectives are: -

- To assess and determine appropriate water harvesting technologies per project intervention areas.
- To support Communities in the adoption of appropriate water technologies.

3.0. Scope of Services

The expert will support the Magadi Tata Foundation in instituting the water harvesting interventions. The assessment will include identification of sites for small water structures and community water pans, development of watering points for communities and livestock, and other appropriate rain water technologies. The target areas will be in the lower (Magadi, Ildamat), middle (Ilodokilan, Keekonyoike, Matapato, Mosiro, Ewaso Keedong) and upper catchment areas (Suswa, Mosiro, Loita).

The project will pay specific attention to the environmental, wildlife corridor impacts and social impacts of water harvesting technologies. A detailed analysis of environmental risks and opportunities associated with water infrastructure, drawing on IUCN past lessons, will be carried out. The project will identify appropriate infrastructure that is compatible with grazing resource availability and seasonal use rights. In particular risks of:

- Affecting long term wildlife corridors will be assessed and solutions discussed and approved before establishing water infrastructures works.
- Water pollution by livestock and conflicts between communities will be assessed before any implementation. Water infrastructure planning must be carefully embedded in landscape management planning institutions to avoid water becoming a weapon for land grabbing by local residents.

Support for adoption of appropriate water technologies will be carried out through training, development of rain water catchment facilities (dams, etc.) and procurement of water harvesting equipment (roof catchment).

4.0. Terms of Reference and Expected Deliverables/Outputs

Key among the deliverables include:

- Conduct a study on the precipitation patterns of Narok and Kajiado Counties and rainwater harvesting potential of the counties.
- Develop a proposal for development of water harvesting technologies within the project areas.
- Determine appropriate water harvesting technologies, at the local level, depending on its water harvesting potential.
- Develop Designs for localized water harvesting infrastructure.
- Lead in identification of areas / sites in collaboration with the NEMA and County governments for the construction of rainwater harvesting structures;
- Facilitate stakeholder engagements and community participation in management of water harvesting structures.
- Develop management procedures for operation and maintenance of water harvesting infrastructure and advice on required capacity building.

5.0. Qualifications, Experience and Competencies of the Expert.

5.1. Education

- Master's degree in water resources management / Water Engineering /Hydrology or a related field.

5.2. Experience

- A minimum of 8 years of experience in water resources management with extended experience in the implementation of water harvesting methods.
- Demonstrated experience working on similar projects in Semi-arid areas or similar context.

- Strong and demonstrated experience in integrated water resources management, rainwater harvesting & management systems, and watershed management;
- Demonstrated knowledge of climate change, and especially with climate variability and climate change adaptation;
- Significant experience in policy matters on water management;
- Qualifications and Experience in project management and stakeholder engagement.
- Having worked with donor projects is an added advantage.

5.3 Skills and Competencies

- Fluency in both spoken and written English and Swahili
- Computer literacy and good report and proposal writing skills.
- Possess skills for organization of workshops and training courses
- Good oral and written communication skills

6.0. Selection Criteria.

The following criteria shall be applied to evaluate expression of interest for Rainwater Harvesting Expert.

The pass mark to be considered for the contract shall be 75%.

PART ONE (EDUCATION)			
No	Description	Yes/No	Marks
1.	Master's Degree in any of the following fields: Water resources management / Water engineering /Hydrology or a related field. <i>(Provide certified copies of certificates (by the issuing institution/commissioner of oaths).</i>		30
2	<i>Training in project management</i>		5
	Total Marks		35
PART TWO (EXPERIENCE)			
1.	The Expert has demonstrated minimum of 8 years of experience in water resources management with		35

	extended experience in the implementation of water harvesting methods. Demonstrated experience working on similar projects in Semi-arid areas or similar context. (Provide updated CV and relevant documentary evidence)		
2	The expert demonstrates experience in policy Matters on water management, project management and stakeholder engagement. (Provide updated CV and relevant documentary evidence)		10
3	The Expert demonstrates knowledge of climate change and especially with climate variability and climate change adaptation. (Provide relevant documentary evidence)		5
	Total Marks		50
PART THREE (SKILLS AND COMPETENCIES)			
1	Computer Literacy, proficiency in computer aided design packages. (Provided relevant documentary evidence).		5
2	Proposal and report writing skills (provide evidence)		5
3	Have worked with donor funded projects organizations. Provide updated CV and relevant documentary evidence		5
	Total Marks		15
	OVERALL MARKS AWARDED		100

7.0. Duration/Time frame

The project runs from F.Y 2023/24-2026/27 however the expert shall be engaged on a part time basis. The contract shall be renewable yearly subject to satisfactory performance.

8.0. Payment method.

Payments shall be based on time sheets and monthly reports submitted by the expert.

9.0. Reporting/ Coordination

The Expert will report to and take direction from the Project Coordinator briefing the Project Management Unit on progress at regular intervals. It is expected that the expert will engage at frequent intervals and collaborate with all relevant NEMA, county, and key stakeholders to ensure the ownership and success of the stipulated objectives. All the reports should be submitted to the satisfaction of project standards.

10.0 Application Procedure.

Interested individual consultants should send their **Updated Curriculum Vitae(CV's) accompanied by all relevant academic and professional documents clearly demonstrating how they meet the required qualifications, job experience and other attributes.** Expression of interest should be submitted in a sealed envelope indicating the reference number and subject of EOI on top of the Envelope.

All expression of interest should be addressed to:

The Director General

National Environment Management Authority

P.O. Box 66839-00200

Nairobi.

And be dropped into the tender box located at the Entrance of Elland House, NEMA Headquarters.

Physical Location; South C, POPO Road Off Mombasa Road.

All expression of interest should be received by 21st May 2024 10.00 AM.