

**Terms of Reference**  
**Study on suitable ecologies for planting mangroves, coconuts, etc**  
**(Activity number 2.1.4.7)**

**A. Background**

This Action "GCCA+ Climate Resilient Coastal and Marine Zone project for The Gambia" aims at consolidating results and positive experiences of the previous GCCA project "*Support to The Gambia for integrated coastal zone management (ICZM) and the mainstreaming of climate change*"<sup>1</sup> 2013-2016.

The objectives of this action are: 1) to support implementation of recommendations set out in the ICZM Management and Strategic Plans (Jan 2016) and the National Climate Change Policy (NCCP) implementation plan for the Gambia (April 2016) and 2) to enhance institutional governance enabling planning and implementation of improved climate resilience, adaptation and mitigation measures in the Coastal and Marine Zones of the Gambia.

This Action seeks to benefit coastal communities and help them to adapt to impacts of climate change through institution strengthening, knowledge management, and demonstrated implementation of the National Decree of the Integrated Coastal Zone Management (ICZM) approach, at national and local levels. It takes into account the inter-linkages between social, economic and environmental dimensions of sustainable development, and is in alignment with the Gambia's National climate change Adaptation Plan and strategy (NAP) as well as the Nationally Determined Contributions (NDC). This action also intends to widen partnership with non-state actors (NSA) and to further integrate women's rights and gender equality issues into local climate adaption plans.

**Project Objective**

The overall development objective to which the project, and therefore this programme estimate, is intended to contribute is to increase climate resilience of the coastal and marine zones of The Gambia.

**Component the study will address**

Component 3: Integration of climate change local adaptation actions into ICZM

**B. Key Question**

Among the activities of the above-mentioned outcome is the greening-up of the diverse ecosystems of the coastal area. The type of plant species to be introduced in a particular ecosystem should be comparable with the area to ensure its survival. This study will determine which plant species will be suitable for which ecology(ies) within the coastal area. The key question for this study is therefore:

*To determine what type of plant species will be suitable for which ecology(ies) within the coastal area.*

### **Scope of the work**

The results of the above will provide basis for appropriate intervention. The study is expected to answer the above question and then provide appropriate options for interventions.

### **Duties of the NRP:**

- Review available desktop data on soils and vegetation in existing reports relevant to the different ecologies of the intervention sites
- Conduct field-based ground trothing of the coast to identify potential sites along the coast.
- Conduct field surveys and demarcate suitable areas along the coast for greening and produce maps of sites to determine the total area in terms of hectares
- Conduct field surveys to record vegetation types and collect information on flora along the coast line and marine areas
- Analyse water samples for pH, salinity and organic matter.
- Comment on the potential suitability of plant species for each ecology
- Prepare an action plan for implementation detailing the layout, determine number of hectares, type and number of plant species, etc
- Compile a single integrated report covering vegetation type, soil, management options and maps
- Present the draft report of the study before the Technical Advisory Team of the project

### **C. Required expertise**

- The minimum qualification for this assignment is Masters Degree (M,Sc) in Forestry or related fields.
- Five years proven experience in related works, in coastal ecosystem studies as detailed above.

### **D. Duration**

The study should be completed within Twenty-Two (**22 days**) period from date of receiving first payment for the assignment. The study is site specific and the study perimeter for each site should be defined

### **E. Deliverables**

The consultant should submit the following:

1. An inception report for conducting the study

2. A comprehensive integrated study report detailing the scope of the work mentioned above in hard and soft copies.
3. Copies of maps outlining the different vegetation ecologies and identified restoration sites.
4. A full cost estimate for acquisition of plant species, planting exercise, care and nurturing of planted species for a period of time

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