

Consultancy  
***Institutional Strengthening to Instituto Nacional de Recursos Hídricos (INRH)***  
**Angola**

## **I. INTRODUCTION**

Mundi Consulting, as a member of the association AURECON-Mundi Consulting, is preparing a proposal to implement the project "***Institutional Strengthening to Instituto Nacional de Recursos Hídricos (INRH), in Angola.***

The National Institute for Water Resources (INRH) is the institution in charge of planning and management of water resources at national level, based on the water resources master plans for each river basin

For the implementation of the project, there are consultancy activities to be delivered by a consultancy team. This document intends to present in general terms the activities to be developed, as well as to describe the PROFILE of the consultants that Mundi Consulting would like to invite to participate in the activities of the Project.

Deadline for receipt of applications: **31 January 2019.**

## **2. OBJECTIVES OF THE ASSIGNMENT**

The services to provide institutional strengthening to INRH are intended to ensure:

- i) efficient management and implementation proposed activities;
- ii) ensure compliance with the applicable regulations of the GoA;
- iii) assist INRH to perform field work and deliver tangible results;
- iv) strengthen and/or complement existing capacity and expertise.

## **3. SCOPE OF WORK**

The consultancy services shall perform advisory services, complement and strengthen existing capacities at INRH and perform field work activities aimed at assisting INRH to efficiently manage and implement the proposed activities. These services shall focus on the performance of technical work, including but not limited to, advice on measures that may be required to increase the delivery of results.

The range of services to be provided in this context includes, but not limited to, the following:

- ***GIS and Water Resources Database Management***
- ***Development of National Water Resources Information & Use System***
- ***Implementation of Water Rights - Water Resources Management***
- ***Special Assignments (On-Demand)***, includes but not limited to technical support to dam safety, water governance (to support implementation of Kwanza River Basin Plan and orient activities for international waters), water quality, etc.

## **4. DURATION OF THE ASSIGNMENT AND REPORTING**

The assignment is estimated to last for **24 months**. Local of work: Luanda, Angola

The Consultants will work under the guidance and report to the INRH General-Director.

## 5. EXPERTISE REQUIRED

The consultancy team required to the implementation of the technical assistance, include:

- GIS and Database management specialist
- Water systems modeller-hydrologist
- Water resources management/water rights specialist

### **Position 1: GIS and Data Management Expert**

**Estimated Effort Level (Staff Months):** 24 Months (30 days' vacation per year)

#### **Key qualifications and experience:**

- a. At least Masters level degree, in Computer Science, Geographic Information Systems, Science, Engineering, or other technically related field, or other technically related discipline;
- b. Extensive knowledge and experience with standard, current GIS tools and technologies, including Arc-GIS desktop and Arc-GIS Server with exposure to applications in water resources;
- c. Recognized technical expertise in Geo-database development and Remote Sensing (RS-GIS) applications in water resources studies (planning, management and development);
- d. Experience with database management systems and web mapping applications such as Arc-GIS server;
- e. Knowledge and experience in using and/or developing spatial information systems, spatial database management, Object-Relational mapping and design, Object-Relational SQL, etc;
- f. Operational experience in programming and development of Apls for wed and mobile applications;
- g. Graphic design skills and ability to produce interactive knowledge products is big advantage;
- h. Good working communication skills in English and working knowledge of Portuguese will be considered an added advantage

### **Position 2: Hydrologist/ water systems modeller**

**Estimated Effort Level (Staff Months):** 24 Months (30 days' vacation per year)

#### **Key qualifications and experience:**

- a) Advanced university degree (at least M.Sc. level) in hydrology, water resource management, or other closely related field;
- b) Working knowledge of multiple water resources models for simulation and optimization for operational purposes (e.g. SWAT, WEAP, HEC Suite, optimization tools (LINGO, GAMS, etc);
- c) Demonstrated experience in time-series data analysis, yield studies and resource assessments; and in the use of rainfall-runoff models and river flow simulation models for both policy development and operational purposes; together with a demonstrated capacity to communicate the outcomes in ways that are relevant to management and stakeholder decision-making;
- d) Experience in Climate Risk Assessment and Development of Climate Smart strategies river basins is an advantage;
- e) Strong computer skills;
- f) Work experience in the Sub-Saharan African countries;
- g) Good working communication skills in both Portuguese and English

**Position 3: Water Rights - Water Resources Management**

**Estimated Effort Level (Staff Months):** 24 Months (30 days' vacation per year)

**Key qualifications and experience:**

- a) Advanced degree (at least M.Sc) in Engineering/ Institutional development/ Law/ or other related disciplines;
- b) Post qualification working experience in the field of water resources management;
- c) Demonstrated experience in dealing with institutional and water rights issues;
- d) Recognized technical expertise in development and application of water right tools;
- e) Working knowledge of processes and approaches for formalization of water rights/uses;
- f) Good computer skills;
- g) Work experience in the Sub-Saharan African countries;
- h) Good working communication skills in both Portuguese and English.

**ADDITIONAL SHOR-TERM CONSULTANTS**

In addition to the above-mentioned expertise that is intended to complement INRH's existing capacity, a group of experts in different technical fields to be engaged as and when required, upon recommendation discussion and approval with INRH.

These experts should have experience in pertinent fields, with at least MSc. degrees in their respective field and 5 years of relevant working experience. The following list of experts is envisaged:

1. Dam Safety
2. Water governance / Institutional specialist
3. Water quality
4. Communications

**6. APPLICATIONS**

Mundi Consulting intends to receive applications of consultants for the long term positions (24 months) of the tender.

Additionally, Mundi Consulting intends to receive expressions of interest of consultants for the short-term positions of the project, to be considered in the proposal to be prepared.

The applications should be sent to:

***Att. Isidro Simões***

**[isidro.simoes@mundiconsulting.net](mailto:isidro.simoes@mundiconsulting.net)**

**Cell : +351 936566305**

**Dead line: January 31<sup>st</sup>, 2019.**

*Mundi Consulting  
Lisbon, January 2019*