**Nile Basin Initiative**

**Terms of Reference**

**Consultancy: Water Resources Atlas Development**

# Background

**The Nile Basin Initiative (NBI)** is an inter-governmental organization initiated and led by the Nile riparian countries to promote joint development, protection and management of the common Nile Basin water resources. NBI has a Shared Vision, namely: ‘*to promote sustainable socioeconomic development through the equitable utilization of', and benefit from, the common Nile Basin water resources*’. A wide range of programs and projects are currently under varying stages of identification, preparation and implementation under NBI designed to contribute towards the realization of the NBI Shared Vision.

The NBI provides a unique forum for the countries of the Nile Basin to move toward a cooperative process to realize tangible benefits in the basin and build a solid foundation of trust and confidence. The Nile Council of Ministers [Nile-COM] serves as the highest decision-making body of the NBI. The Nile-COM is supported by the NBI Technical Advisory Committee [Nile-TAC], which is composed of two senior officials from each member country.

NBI is managed from three Centers. The first Centre at Entebbe, Uganda, forms the NBI Secretariat (Nile-SEC) and was launched in September 1999. It has a coordinating role across the Basin, supports the platform for Basin-wide dialogue, and provides and manages an interactive, intelligent, basin knowledge base and promotes Water resources management. Another Centre at Addis Ababa, Ethiopia (ENTRO) and a third Centre at Kigali, Rwanda (NELSAP-CU) both manage the facilitation of cooperative water resources development in their respective sub-regions.

**NBI Core Functions: t**he NBI performs three core functions:

* *Building Cooperation.* The NBI main objective is to facilitate, support and nurture cooperation amongst the Nile Basin countries to promote timely and efficient joint actions required for securing benefit from the common Nile Basin water resources
* *Water Resource Management.* The NBI provides member countries with analytic tools and a shared information system that will enable monitoring and the sustainable management of the basin.
* *Water Resource Development.* The NBI assists member countries to identify development opportunities and prepare projects and seek investments. Development programs are focused on power trade and generation, agriculture and watershed management.

# NBI Secretariat (Nile-Sec): The Nile Secretariat is responsible for the overall corporate direction of the NBI as defined by the Nile Council of Ministers. Its operations are divided into two main programs: the Basin Cooperation Program and the Water Resources Management Program.

**Water Resources Management Department:** the Nile-Sec has established the Water Resources Management Department (WRMD) to advance the implementation of its water resources management functions. These functions include development of basin wide policies, expanding the knowledge base, provision of expert analytical services using the Nile Basin Decision Support System (NB-DSS), and monitoring the state of the basin.

As part of expanding the knowledge base, the NBI wishes to develop an Atlas for the Nile River Basin to provide well synthesized, interpreted information to our stakeholders and thereby promote evidence based decision making.

# Objectives of the consultancy

The primary objective of this consultancy is to support the development of the Nile Basin Atlas by generating selected water resources related illustrations to show facts, characteristics and trends occurring in the Nile Basin.

# Scope of Work

* Review final specifications of the Atlas Chapters
* Collect, collate and process data needed for the preparation of the Atlas. The data shall largely be obtained from NBI databases with some data compiled from secondary sources, such as the internet.
* Archive the collected data systematically for easy retrieval; use appropriate metadata system to document vital information on the data
* Working closely with NBI Water Resources Management team, generate all illustrations, maps and textual descriptions of entries of the Atlas to cover all the themes of the Atlas.
* Work closely with GIS and Remote Sensing Specialist to prepare process data and develop illustrations that are based on remote sensing data.
* Provide brief texts describing the illustrations developed.
* Provide strategic direction of storylines building up the Atlas Chapters.
* Work closely with graphic designer and interactive atlas developer (both to be contracted by the client) to prepare the final atlas.

# Deliverables

 The Consultant is expected to deliver;

1. Inception report showing final specifications of the Atlas chapters
2. A well-documented catalogue of data used and compiled in a repository including Meta data
3. Ready-to-use files of the illustrations in a format to be determined by the Graphics designer.
4. Description (Caption) of the illustrations explaining the process occurring in the Nile Basin and data used
5. All raw files, images and map projects used and generated during this contract period
6. **Required qualifications and experiences of the Consultant**
* At least Masters degree, in Water Resources Engineering, Water Resources Management, , Natural Resources Management , Hydrology, Environmental Sciences or other technically related field
* Atleast 7 years of practical experience in hydrology or Hydro meteorology related assignments with demonstrated analytical background.
* At least 5 years proven working experience with standard, current GIS tools and technologies, including ERDAS Imagine, ENVI, ArcGIS Desktop and ArcGIS Server for water resources management; knowledge of remote sensing is an advantage
* Nile Basin Experience
* Demonstrated writing, analytical and reporting skills.
* Excellent English language skills
1. **Implementation arrangements**

The contract period shall extend from July to November 2015. The Consultant shall sign a time based contract with the Nile-Sec and **shall be stationed full time at the Nile-Sec, Entebbe** during the contract period, under the supervision of the Head of Water Resources Management Department of the Nile-Sec.

Deadline for receiving applications of interested candidates is 10th July 2015; applications should be submitted to consultant@nilebasin.org and cc to mmbuliro@nilebasin.org clearly indicating in the subject “ Water Resources Consultant”