



**Memorandum of Understanding (MOU)**  
**Between**  
**The Center for Remote Sensing, Boston University, U.S.A.**  
**AND**  
**The Geological Research Authority of the Sudan (GRAS),**  
**Ministry of Minerals, Sudan.**

**1. Parties to the Understanding:**

**1.1. Center for Remote Sensing at Boston University, U.S.A.**

The Center for Remote Sensing at Boston University is a research facility that was established in 1986. Researchers at the Center apply techniques of remote sensing and geographic information systems (GIS) to research in the fields of archaeology, geography, and geology. In 1997, the Center was recognized by NASA as a "Center of Excellence in Remote Sensing".

**Represented in this MOU by:-**

**Dr. Farouk El-Baz, Director**

Center for Remote Sensing  
Boston University  
Boston, MA, U.S.A.

**1.2. The Geological Research Authority of the Sudan (GRAS), Ministry of Minerals, Sudan.**

The Authority stands as the State consultant on matters related to geology and mining and it is the governmental entity committed to control all mining and quarrying operations nationwide, to enforce regulations and measures as to

monitor safety and security at sites, to ensure that the appropriate techniques are being applied for the best use of natural resources, and to protect the environment. The Authority is considered as the vigilant eye observing the rights due to the State in the output of investment projects in the mining sector.

**Represented in this MOU by:**

**Dr. Yousif Elsamani, Director General**

Geological Research Authority of the Sudan,  
Ministry of Minerals,  
Khartoum, Sudan.

**2. Statement of the Purpose:**

- 2.1. The Center for Remote Sensing and the Geological Research Authority of the Sudan recognize that the Parties have many interests in common and that there will be mutual benefits from collaboration and cooperation.
- 2.2. The Center for Remote Sensing and the Geological Research Authority of the Sudan wish to formalize and standardize the relationship between the Parties in order to provide consistency and a focal point, for the preparation and administration of programmes for collaboration and cooperation.

**3. Objectives of the MOU:**

The subject areas of potential collaboration and cooperation have been identified as, but not limited to the following activities:

- 3.1. Acquire and process satellite images of Sudan provided by the Center for Remote Sensing to serve as geological database at GRAS with a view of conducting geological and geophysical surveys to harness basic information to produce reports and geological maps.
- 3.2. The Center for Remote Sensing will provide advance training graduate courses in GIS remote sensing and other relevant geological and engineering topics.
- 3.3. The Center for Remote Sensing will advise and assist GRAS with relevant needed technical links.
- 3.4. The GRAS will benefit from relevant outputs produced as an outcome from the MOU between the Center for Remote Sensing and The Future University (FU).

