

## CONSULTANCY SERVICES

**Project Title: Innovative Large-Scale Production of Affordable Clean Burning Solid Biofuel and Water in Southern Africa: transforming bush encroachment from a problem into a secure and sustainable energy source.**

BITRI is one of the implementing partners in EU Horizon 2020 funded “Steambio Africa”. The project seeks to rehabilitate bush encroached rangelands through controlled harvesting (thinning) and subsequently monetizing the thinned woody biomass by turning it into a clean-burning, high-value solid biofuel. The project will demonstrate the value of an innovative superheated steam (SHS) processing technology to capture the value of encroaching woody biomass species to produce clean burning solid biofuel.

Under this European Union (EU) funded project, Botswana Institute for Technology Research and Innovation (BITRI) seeks individual consultant’ for biomass chain saw harvesters training, on farm harvesting roads clearing and demonstration harvesting services.

**Location:** Inalegolo, Kgalegadi district, Botswana

**Application Deadline:** 07-July- 2023 (Midnight Gaborone, Botswana)

**Type of Contract:** Individual Contract

**Languages Required:** Setswana

**Consultancy period:** 28 days

### **Duties and Responsibilities**

- Develop a timber harvesting plan (e.g., advice on logistics and equipment, and protective clothing, fire control, harvesters ration requirements and related activities),
- Hands on training of harvesters (local herdsmen with minimum or no educational background), on timber harvesting, care of harvesting equipment, safety, aftercare treatment.
- Clearing of timber harvesting routes along parameter fence with feeder routes going to the route in the center of the ranch to avoid uncontrolled overland traffic destruction of the rangeland.
- Supervise biomass harvesting.
- Train and guide harvesters on timber extraction and transportation operations
- Train harvesters on maintenance of chainsaws and other tools
- Supervise harvesting of at least 40 tonnes of biomass.
- Capacitate an officer to supervise all the above
- Document spatial associations of the harvested species with other tree species with the aim of drafting a journal manuscript.

### **Competencies**

- Experience operating chainsaws and other hand tools



- Experience in project design, implementation, monitoring in timber extraction and wood processing
- Ability to write scientific journal articles in forest science.

#### **Required Skills and Experience**

- PhD in Forestry or Agroforestry
- Experience in Timber Harvesting, Wood Processing and Forest Management

**The expected date of assignment completion is August 15<sup>th</sup>, 2023.**

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