



**KenGen**

Kenya Electricity  
Generating Company Ltd.

## CONSULTANCY SERVICES AND IMPLEMENTATION OF MINERAL EXTRACTION TECHNOLOGY FROM GEOTHERMAL BRINE:

**TENDER REF: KGN-SBP-09-2017**

### 1. Overview

Kenya Electricity Generating Company Limited (KenGen) is a limited liability company, 70% owned by the Government of the Republic of Kenya. It is the leading electric power generation company in Kenya, producing about 75% of the electricity used in the Country. KenGen has an installed capacity (name-plate rating) 1631 Megawatts (MW) and a market share of 70% from a mix of hydro, geothermal, wind and thermal generation sources, located at different parts of the country.

All the geothermal plants owned by KenGen are the single flash condensing type. The flashing process yields brine that contains mineral elements that could have commercial application. The abundant minerals in the brine are Silica, Lithium and carbon dioxide with other elements present in traceable amounts. The average Silica concentration in the brine ranges from 600-800 mg/kg with Lithium content averaging at 1.5- 2 mg/kg. The total brine is estimated at 2700 tonnes/hr occurring in several streams that are transversed in the Olkaria geothermal field. At a brine flow of 2700 tonnes/hr, the average Total Dissolved Solids (TDS) of the brine is about 2000 Parts Per Million (ppm) with an average potential of Hydrogen (pH) of 8-9.

KenGen intends to engage a consultant from eligible firms to provide services and technology for mineral extraction from this geothermal brine.

### 2. The scope of services

The scope of services for the qualifying firms will include but not limited to the following

1. Carry out a feasibility study on the geothermal projects in Olkaria to establish the actual available quantity of the minerals and viability of the project.
  - The study should be able to bring out the economic feasibility and financial returns of the project.
  - The study should also focus on the environmental factors
  - Bring out the market need for the minerals in the local and global arena.
2. Presentation of the findings in a report with implementation recommendations to the management of the technology
3. Install a pilot extraction plant to demonstrate the functionality of the technology
4. Undertake the implementation of the commercial project for KenGen

### 3. Eligibility and Evaluation criteria

The EOI must be accompanied by the firm's qualifications, professional capabilities and details of past experience in the area of geothermal brine treatment and mineral recovery. Such information may include brochures, description of similar assignments, experience in similar conditions, and availability of appropriate skills among staff with their most recent profiles showing their experience, qualifications, capabilities, referees and details of past experience. The firm shall bid for the assignment individually or in association with other firms (consortium).

The interested firms shall meet the following requirements:

- a) Certificate of Incorporation/Registration (and any certificate of change of name), certified by an authorized representative of the bidder or (as the case

may be) the consortium member.

- b) Firms that bid jointly should submit consortium agreements between the parties, with the roles of each party clearly defined. Not more than one consortium agreement of the same firm will be accepted nor firms participating individually and elsewhere bidding as partners in the JV for this tender.
- c) Company profile with brief description of all the similar/related consultancies undertaken with their status.
- d) Provide relevant references for at least 3 similar consultancy projects done within the last ten years.
- e) Description of management / organization structure, list of key staff relevant to the assignment and their Curriculum Vitae inclusive of staff who will monitor and give backup services
- f) Information regarding any current litigation involving the consulting firm certified by a reputable law firm.

### 4. Clarifications

The interested parties may request for clarifications on this Expression of Interest for up to seven (7) days before the submission date. Any request for clarification must be sent in writing by paper, mail, facsimile, or electronic mail to: [tenders@kengen.co.ke](mailto:tenders@kengen.co.ke) and copied to [pwambugu@kengen.co.ke](mailto:pwambugu@kengen.co.ke).

This EOI can also be downloaded from our website [www.kengen.co.ke](http://www.kengen.co.ke) and [www.treasury.suppliers.go.ke](http://www.treasury.suppliers.go.ke). Check the websites from time to time before the closure date for any uploaded information through clarification/addendum.

### 5. Submission

The submission of the prequalification documents made in English must be received in a sealed envelope addressed to:

**THE COMPANY SECRETARY & LEGAL AFFAIRS DIRECTOR  
KENYA ELECTRICITY GENERATING COMPANY LIMITED  
STIMA PLAZA, KOLOBOT ROAD,  
P.O.BOX 47936, 00100 GPO NAIROBI,  
KENYA.**

The application (One Original and one Copy sealed inside outer envelope marked as above must be dropped in the tender box located on the ground floor of Stima Plaza III

Not later than by **1400 hours** (Kenyan Time) by **2<sup>nd</sup> June 2017** and clearly marked "**EXPRESSION OF INTEREST FOR PROVISION OF SERVICES AND TECHNOLOGY FOR MINERAL EXTRACTION FROM GEOTHERMAL BRINE**". The Tender will be opened at **1430 hours the same day** in presence of bidder representatives who choose to attend.

Only firms which fulfils the requirements as stated will be prequalified under this procedure will be invited to submit their technical and financial proposals in accordance with the procedures set out in the **Standard Request for Proposal (RFP) 2007 edition for selection of consultants issued by the Public Procurement Regulatory Authority (PPRA) of the Government of Kenya (www.ppoa.go.ke)**

The consultant will be selected under the (QCBS) Quality and Cost based selection method

**SUPPLY CHAIN DIRECTOR**